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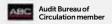
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The $\mbox{\it Digital SLR Photography}$ team would like to wish all its readers the very best for 2017!

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WELCOME TO THE JANUARY 2017 issue of Digital SLR Photography. With this time of year being the most popular time to add to your stockpile of photo kit, I wonder how many of you included a lens or two on your Christmas list this year? Hopefully quite a few of you have. While many opt to replace their camera, I've always preferred to spend my hard-earned on increasing and

improving my arsenal of lenses. I was always of the view that there was no point changing a perfectly capable camera for another that offers slightly better resolution and/or a few extra features, when instead I could invest in filling holes in my outfit with a new lens like an ultra-wide or a dedicated macro lens. I always believed that adding lenses to my bag of tricks opened up fresh creative opportunities that could only serve to improve my photography. Whether it's a cheap and cheerful 50mm f/1.8 lens or an expensive fast telezoom, adding a new optic is a great way of invigorating your photography. In our Beginner's Guide, we cover all the essentials you need to know about which lens is best for you. We hope you enjoy this issue and, on behalf of everyone at Digital SLR Photography, may I wish you all a Merry Christmas and Happy New Year. All the best!

Daniel Lezano Editor



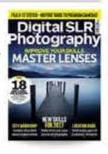
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ON THIS MONTH'S COVER...

The Lake District is one of the UK's favourite regions with landscape photographers. As demonstrated by this simple but beautiful composition, taken at Ashness in Derwent Water by regular contributor Ross Hoddinott. On p38, Ross provides expert advice on how you can capture similar results.



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Daniel Lezano

With over 30 years' experience as an enthusiast SLR photographer and 20 years on photo magazines, editor Lezano is as passionate as ever about photography, in particular portraits.



Caroline Schmidt

With extensive experience as a magazine journalist, contributing editor Caroline is passionate about photography and delivering an inspiring magazine each month.



Jordan Butters

With a finger always on the pulse of all things photography, Jordan turns his hand to most things: he's our social media master, features guru and talented pro photographer.



Ross Hoddinott OUTDOOR

He's not only an award-winning nature photographer, a leading expert in landscape and wildlife photography, he's a top tutor, too. rosshoddinott.co.uk



Lee Frost LANDSCAPES

A long-standing regular contributor, Lee is a fountain of knowledge when it comes to shooting landscapes and delivering expert tutorials. leefrost.co.uk



Dina Belenko STILL-LIFE

Russian still-life photographer Dina is a creative genius when it comes to bringing everyday items to life and creating stunning compositions. 500px.com/arken



Helen Dixon LANDSCAPES

Helen is living the dream, having given up a full-time job to live in Cornwall and become a professional landscape photographyer. helendixonphotography.co.uk



Dave Sandford NATURE

Pro sports photographer Sandford tackles an entirely different beast in his latest project: the violent and mysterious waves of Lake Erie. davesandfordphotos.com



Brett Harkness PORTRAITS

You either want to be photographed by him or shoot like him, A master of portraits, fashion and weddings, Brett runs regular photo workshops. brettharknessphotography.com



Paul Ward PORTRAITS

A pro photographer, Paul is an expert on lighting. He specialises in studio and location portraits, as well as commercial photography. paulwardphotography.com



James Abbott LANDSCAPES James is an award-winning editorial,

photographer, specialising in portrait and landscape photography. *jamesaphoto.co.uk*





Portfolio

One Ring To Rule Them All by Raed Ammari

500px.com/ethos79

"Inspired by J.R.R. Tolkien's Lord Of The Rings. This is a friendly homeless man named Kent that I've photographed before. It was taken on a windy day in a busy street in Denver, Colorado. The challenge was to find a dark background and eliminate distractions from curious pedestrians. Kent's majestic hair and beard blowing in the wind add the right mood."

Sony Alpha A7R II with Sony Vario-Tessar T* FE 16-35mm f/4 ZA OSS lens. Exposure: 1/800sec at f/5 (ISO 640).







The Lighthouse by Daniel Fleischhacker

www.daniel-photography.eu

(Above) "Fanad Head is in the north of Donegal in Ireland. This was taken on a windy evening – the clouds were moving fast and the waves were pounding the rocks. I wanted to include the rocks as a lead-in line to the lighthouse. I had to stabilise my tripod because of the strong wind and I used a ten-stop ND to capture movement in the clouds."

Nikon D810 with Tamron 15-30 mm f/2.8 lens. Exposure: 30 seconds at f/11 (ISO 64).

The Burning Window by Daniel Fleischhacker

(Centre left) "A winter morning in Canyonlands National Park, Utah. On this morning I had really unique conditions – there was fog in the valley, a fresh dusting of snow, and fire in the sky. I composed the image to use the arch as a frame around the canyon and the mountains in the background. I used a polariser to control the glare of the snow and rocks." $Nikon\,D810\,with\,Tamron\,15-30\,mmf/2.8\,lens.\,Exposure: Three\,seconds\,at\,f/11 (ISO\,64).$

The Glowing Hedges by Daniel Fleischhacker

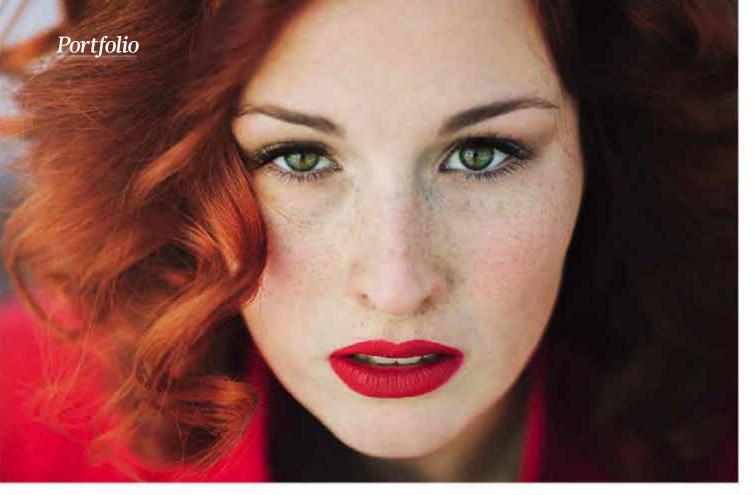
(Bottomleft) "I took this shot at the famous Dark Hedges in Northern Ireland. This place is really popular, and also a filming location for Game of Thrones. It was a sunny morning, with some soft light hitting the end of the road, which made a really nice point focus on. The trees are really magical. I used a polariser to enhance the autumn colours." $Nikon\,D810\,with\,AF-S70-200\,mmf/4G\,lens.\,Exposure: 1/6 sec\,atf/11 (ISO\,64).$

Colours of Norway by Daniel Fleischhacker

(Right) "Captured on the wonderful Lofoten Islands, during a cold, stormy morning. Stong winds blew across the landscape, creating cool cloud formations and there was still a lot of snow in the mountains, which contrasts with the landscape. I hiked up a small mountain to reach this lovely creek, which I used as a lead-in line."

Nik on D610 with AF-S16-35 mmf/4 Glens. Exposure: 0.6 seconds at f/11 (ISO 100).







Freckles by Jovana Rikalo

jovanarikalo.com

(*Top*) "This girl, Helena, is one of my muses. She has captivating eyes, beautiful freckles, and incredible hair colour. This was taken during a very cold day during winter. During the shoot, I wanted contrast between the warm, vibrant colours and the bitter chill in the air." Canon EOS 5D MkIII with Canon EF 135mm f/2L USM lens. Exposure: 1/800sec at f/2 (ISO 100).

Girl Fish by Jovana Rikalo

(Above left) "There isn't actually any specific story behind this image. I was photographing Milica during the summer – it was a very warm day so the water was refreshing! I added the fish during processing, and chose this species because its colour matched Milica's lipstick and eyes. I love playing with powerful colours in my images."

Canon EOS 5D MkIII with Sigma 35mm f/14 Art lens. Exposure: 1/125secatf/5 (ISO 500).



Tornado by Jovana Rikalo

(Above right) "I love making fine-art images — images that tell stories. One of my biggest fears is tornados. The girl appears to be standing without fear, carefree and waiting for the tornado to pass by. However, how she feels on the inside is unclear. I chose not to show her face so as to hide the fear she keeps to herself for the passing storm." Canon EOS 5D Mk III with EF135mmf/2Llens. Exposure: 1/125sec at f/5 (ISO 500).

Red by Jovana Rikalo

(Right) "Colour play is heavily involved in this portrait too. I love the colour red – it screams for attention in images! My model Bojana has pale skin, so I ordered this bright and beautiful dress with a three metre long train to envelope her in. The dress contrasts with her skin and, when shot from above, forms a natural frame for the portrait." Canon EOS 5D Mk III with EF 50mm f/1.4 USM lens. Exposure: 1/2000sec atf/2.5 (ISO 160).

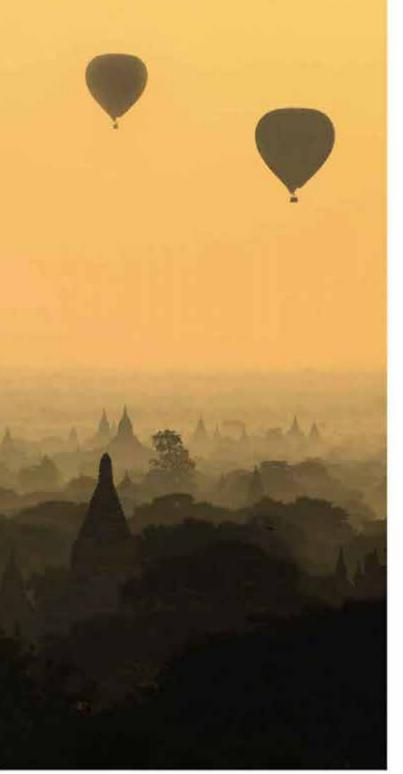








 ${\bf 14\, Digital\, SLR\, Photography}\, \textit{January}\, 2017$



The Plain of Bagan by Saravut Whanset

500px.com/saravutwhanset

(*Left*) "I took this shot from an elevated pagoda overlooking the ancient city of Bagan. The pagoda was incredibly narrow, so I didn't have enough room to use my tripod. I exposed for the highlights, knowing that I could recover shadow detail during post-processing, if needed." Nikon D800 with AF-570-200mm f/2.8G EDVR lens. Exposure: 1/200sec at f/6.3 (ISO 100).

Full by Saravut Whanset

(Below far left) "One of my favourite images. I asked the fisherman to cast his net down in front of my camera to create the splashes of water. I was sure to switch my camera to continuous high speed burst mode to ensure that I captured a frame that I was happy with." Nikon D610 with AF-S14-24mmf/2.8G lens. Exposure: 1/200 sec at f/3.2 (ISO 640).

Farmer by Saravut Whanset

(Below centre left) "I like capturing images that tell a story. This was taken in my hometown in Thailand — a traditional farmer is carrying a rice paddy across a small bridge. The smoke in the atmosphere simplifies the composition and removes distractions from the background." Nikon D4 with AF-570-200mm f/2.8G ED VR lens. Exposure: 1/6400sec at f/3.2 (ISO 160).

Go Home by Saravut Whanset

(Below centre right) "I shot this image in Mu Chang Chai, in northern Vietnam. It's a beautiful place and when the light is nice the terraced rice fields look incredible. I've visited Mu Chang Chai for the past three years and it's a beautiful place that never fails to impress."

Nikon D610 with AF-S 24-70mm f/2.8GED lens. Exposure: 1/125sec at f/8 (ISO 250).

Go to Euro by Saravut Whanset

(Below right) "Two children playing football in the shallow water before sunset, maybe with dreams of being professionals one day? I shot from a low down angle with a telephoto lens at a wide aperture to emphasis the foreground bokeh and create a more interesting image." Nikon D4 with AF80-200mm f/2.8D lens. Exposure: 1/2500sec at f/3.5 (ISO 125).

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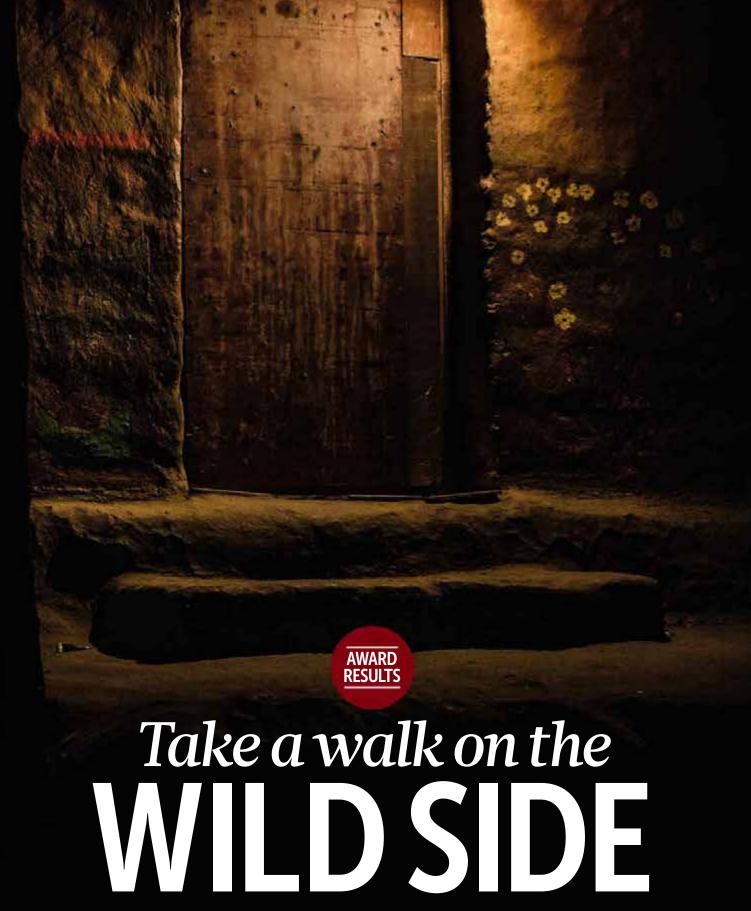
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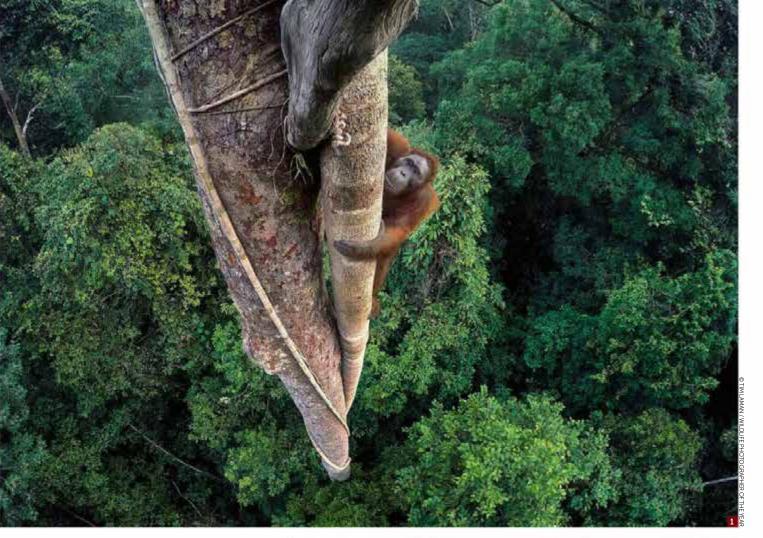
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THE GREATEST WILDLIFE IMAGES ARE HONOURED AS THE WINNERS OF THE NATURAL HISTORY MUSEUM'S WILDLIFE PHOTOGRAPHER OF THE YEAR AWARD 2016 ARE SHOWCASED IN LONDON

WINNER URBAN: The Alley Cat by Nayan Khanolkar: At night, in the Aarey Milk Colony in a suburb of Mumbai, bordering Sanjay Gandhi National Park, leopards slip ghost-like through the maze of alleys, looking for food (especially stray dogs). The Warti people living in the area respect the big cats. Despite encounters and occasional attacks, they are an accepted part of their lives and culture, seen in traditional paintings that decorate the walls of their homes. The leopard is not only the most versatile big cat but possibly the most persecuted.



HE NATIONAL HISTORY MUSEUM in London is an iconic establishment that needs no introduction. As if the fascinating displays and exhibits available year round weren't enough of a reason to pay a visit, then here's another great excuse – from now until 10 September 2017 you can feast your eyes on the world's finest wildlife photography, as the winning images from the Wildlife Photographer of the Year 2016 go on display inside the museum.

The 52nd Wildlife Photographer of the Year award, developed and produced by the Natural History Museum, London, saw an influx of submissions, with almost 50,000 entries from 95 different countries all vying for the top prize. American photographer Tim Laman was crowned Wildlife Photographer of the Year 2016 for his striking image, Entwined Lives (above). Tim captured the image by rigging several GoPro cameras high up in a tree above the Indonesian rainforest, which he then triggered remotely as the orangutan climbed. It just goes to show that you don't need the biggest and best equipment to capture an award-winning photograph!

The Young Wildlife Photographer of the Year was named as 16-year-old Gideon Knight for his image The Moon and the Crow (p21), captured in London's Valentines Park. Gideon and Tim were amongst 16 category winners recognised by the panel of judges.

Depending on when you're picking this up, there might just be time to enter next year's award, which closes on 15 December 2016. To visit the exhibition you should book in advance – tickets start at £10.50 for adults (£6.50 for children). NHM members and children under four go free! For more info, visit: www.nhm.ac.uk/visit/wpy/

















1) FINALIST MAMMALS: Wild West Stand-Off by Charlie Hamilton James: A grizzly bear charges at ravens trying to grab a piece of the feast in Grand Teton National Park, in western US. "Approaching a bear's lunch is a dangerous thing to do," says Charlie. So there were strict protocols for getting out of his vehicle every time he went to check his camera trap. Over five months, he had thousands of images of ravens and vultures, but only a few of wolves or bears, and none were up to the high standards he set himself, until this one.

2) **WINNER PLANTS AND FUNGI:** *Wind Composition* by Valter Binotto: With every gust of wind, showers of pollen are released, lit up by the winter sun. To create the dark background, Valter backlit the flowers. "The hardest part was capturing the female flowers motionless while the catkins were moving," explains Valter. "I searched for flowers on a short branch that was more stable." Using a long exposure to capture the pollen's flight, and a reflector to highlight the catkins, the wind finally delivered the composition he had in mind.

3) **WINNERTHE WILDLIFE PHOTOJOURNALIST AWARD:** *The Pangolin Pit* by Paul Hilton: Nothing prepared Paul for what he saw: 4,000 defrosting pangolins from one of the largest seizures of the animals on record, destined for China and Vietnam for exotic-meat or traditional medicine. Pangolins have become the world's most trafficked animals. This illegal trade, along with habitat loss and hunting, means that the four Asian species are endangered or critically endangered, and Africa's four species are heading that way.

4) WINNERYOUNG WILDLIFE PHOTOGRAPHER OF THE YEAR 2016:

The Moon and the Crow by Gideon Knight: The spindly twigs of the sycamore silhouetted against the sky "made it feel almost supernatural, like something out of a fairy tale," says Gideon. Positioned on a slope opposite, he tried to capture the perfect composition, but the crow kept moving. Just as the light was about to fade beyond the point that photography was possible, his wish came true, and an ordinary London scene turned into something magical.

THE MOST IMPORTANT IMAGES OF ALL TIME

TIME MAGAZINE COMPILES A DEFINITIVE LIST OF THE MOST IMPORTANT IMAGES THAT WILL INSPIRE, INFLUENCE AND SHOCK, AND THE STORIES BEHIND THEM

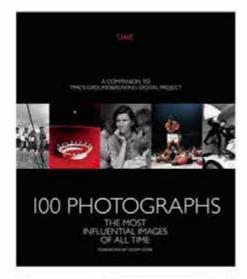
MAN STANDS defiant in the path of four tanks in Beijing's Tiananmen Square, a sailor embraces with a nurse in Times Square as the Second World War comes to an end, Muhammad Ali towers over a toppled Sonny Lister, and an emaciated Sudanese child collapses while a vulture watches on. Photography has the power to tell stories like no other medium, and some of the most memorable and powerful images in history can be instantly conjured in our minds by their description alone.

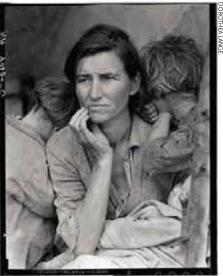
TIME magazine has compiled an incredible collection of what it is calling the 100 most influential images of all time. Rather than listing the images in a gallery, void of context, TIME has added extra depth to the project by explaining the story behind each image in great detail, providing a vital history lesson to anyone with an interest in photography. The earliest image in the collection is from 1826, and is the first known photograph, 'View from the Window at Le Gras' by Joseph Nicéphore Niépce, while the most recent addition is Nilüfer Demir's tragic and tear-jerking image 'Alan Kudir', from 2015, showing the body of a deceased three-year-old Syrian refugee laying face-down on the beach.

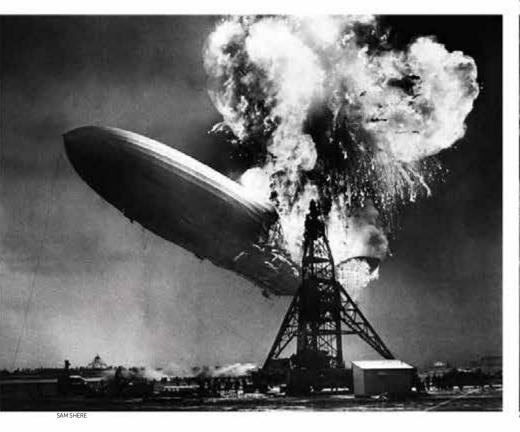
To compile and whittle down the collection to just 100 images, TIME contacted some of the most experienced curators, historians and photo editors around the world, as well as highly regarded photographers, journalists and editors. Many of the images you'll be familiar with, but we almost guarantee there will be some that are new to you too. While some have been selected as showing key moments in history, others have been chosen for their impact on the progress of humanity, or for being important moments in photography. Around 20 of the images are accompanied by short video documentaries too, offering an extra insight and background into each image. From times of great elation and success, to the atrocities of war and famine, famous faces to great tragedies, the collection is as powerful as it is varied.

Alongside the digital collection, *TIME* are also offering a hardcover book, *100 Photographs: The Most Influential Images of All Time.* It's available to order in the UK from Amazon for around £22. To view the full collection, visit: 100photos.time.com

Clockwise from right: Dorothea Lange's Migrant Mother, Nipomo, California, 1936; Alfred Eisenstadt's V-J Day In Times Square, New York, New York, 1945; Sam Shere's The Hindenburg Disaster. Lakehurst. New Jersey, 1937









FRED EISENSTAL



STUDENT PHOTOGRAPHER OF THE YEAR

HENRY NATHAN, an undergraduate student at the University of Leeds, has won this year's Calumet Student Photographer of the Year award, with an atmospheric travel image of a man and his dog in Skylight Cave, Oregon, United States. The cave is so named for the shafts of daylight that pierce into the volcanic cavern from above, which only occurs at certain times of the year. Henry explains how he captured his winning image, "We woke up early and visited these caves and had to hit an exact time to make sure we got the perfect light. The caves only shine light

through for about a month a year so we were very lucky to see the light beams. To enhance the lighting we used a smoke bomb. The dog in the photo posed with his owner, creating the perfect subject."

The 20-year-old student fended off over 850 other entries and netted himself a prize package worth over £11,000! Ten runners up were also chosen, each of them receiving a £20 Calumet voucher and a magazine subscription. To view the top images for yourself, and marvel at the photographic talent of the future, visit: http://bit.do/SPOTY2016



WHAT GOES UP, MIGHT COME DOWN

The GoPro Karma, announced earlier this year, seemed to be the ultimate gadget. A stabilised drone that could pack away in a compact case and included a detachable gimbal for smooth handheld footage too. Despite delays in fulfilling orders, the drones soon started to arrive, and it looked like GoPro was onto a winner - that was until Karmas started falling out of the sky due to power failure. A drone crash could prove fatal, and GoPro have since issued a recall on all Karmas, even if your model shows no signs of failure. GoPro are issuing full refunds until the issue is resolved, and are offering a free GoPro Hero5 camera as compensation for those affected in the U.S. It's unclear whether any shipments made it to the U.K. prior to the recall, or whether the compensation offer applies here too. If you purchased a Karma, contact GoPro via their website to arrange for a refund. Let us know if you had any issues on Twitter @digitalsIrphoto. www.gopro.com

THE SINCEREST FORM OF FLATTERY?

ERE'S A VERY, very bizarre story. It's no secret that being successful on Instagram can be lucrative. Instagram power couple and travel photographers Jack Morris (@doyoutravel) and Lauren Bullen (@gypsea_lust) are no strangers to this – they have a collective following over 2.4 million followers, and spend their days travelling the world and sharing wonderful images of themselves and their whereabouts whilst promoting products and destinations.

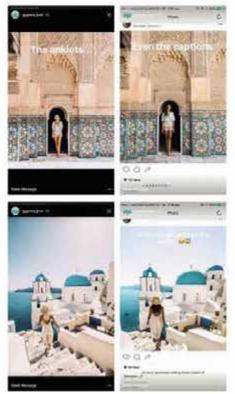
A fantastic lifestyle, and nothing unusual in this day and age. That is until Lauren noticed another Instagrammer by the username of @diana_alexa copying her images. That's not to say, downloading and resharing them, but actually visiting the same locations, using the same compositions, wearing the same clothes, posing in the exact same manner and often using the same image captions!

In Morocco, Italy, Spain and Greece, Diana appears to go to extreme lengths in over 15 examples to tread in Lauren's footprints, with no acknowledgement. Not only is this an audacious approach, but it must also cost a huge amount of money, and take huge time and effort to achieve. And that's without sourcing matching wardrobes and props, often just days after the originals are shared.

Since the story broke, @diana_alexa's account has been made private and, while Lauren's plight was originally met with sympathy online, once the story picked up pace, many people started calling it a hoax. In some images the locations would have been very hard to find, down back alleys in Marrakesh for example, or in hotel suites. especially so as Lauren didn't geotag many of the originals. Questions have also been asked as to why the girls' outfits fit differently, suggesting they're in cahoots and sharing the same clothes. Furthermore, and crucially, a Google search reveals an old Twitter account in the name of @DianaAlexaS that is linked to Lauren's email address.

Lauren maintains that this isn't a hoax, but says she has been in contact with Diana, and has deleted her original blog breaking the story. In an interview with *Cosmopolitan* magazine Lauren said, "Jack and I are already well established influencers who work with such high clients and have a reputation to lose. Why would we risk planning something that could backfire in our face?"

Lauren's account has jumped some 300,000 followers since the story broke, so either way it doesn't seem like the saga has done her any harm.



Above: Lauren shared the incredible copycat story on her blog (gypsealust.com) and on her Instagram account.





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with a witty caption for the image, right. Email it with subject 'Smile this January' to: enquiries@dslrphotomag.co.uk by 1 February 2017 and, if you make our sides split, you'll scoop a Samsung Pro Plus 64GB SDXC card worth over £80. UK entries only. www.samsung.com



Pro tips and tricks

ESSENTIAL KIT: DON'T LEAVE HOME WITHOUT IT...

PACK THE RIGHT KITTO ENSURE YOU KEEP ON SHOOTING. EVEN IN A PINCH, HERE'S A SELECTION OF THRIFTY CAMERA BAG ESSENTIALS



GAFFER TAPE

Whether you need to temporarily mend broken equipment, achieve a complex shooting angle using a homemade rig, or even fashion a makeshift filter holder on the fly, there's not much that gaffer tape can't do.



POLARISING FILTER

If you're going to take one filter with you, make it a polariser. They cut down glare and reflections, saturate colour and can be used to extend exposure times. It's also one of the few filter types that can't be faked in Photoshop.



LENS CLOTHS

Dirty optics can ruin an image at just the wrong moment. Always keep a couple of lens cloths, or a lenspen, to hand to wipe off dust, water spray and greasy fingerprints. It's always better than using the inside of your t-shirt!



SAMSUNG

MULTI-TOOL

Whether your tripod plate needs tightening, or your tripod itself has come loose, a good multi-tool takes up precious little space and can be the difference between getting the shot or going home empty-handed.



HAND WARMERS

Not only are they good for warming your hands (duh) in the cold, but they are also ideal for keeping spare batteries warm (to prevent power drain), or for wrapping around your lens during night shooting to prevent dew forming.



TORCH

From finding your way to and from a location to light-painting or locating those darned spare memory cards in your camera bag at night, a torch is a must-have if you're heading out shooting after dark.



TAKE A VIEW OF GREAT BRITAIN

BREATHTAKING DIVERSITY ON DISPLAY AS THE TENTH TAKE-A-VIEW LANDSCAPE PHOTOGRAPHER OF THE YEAR IS CROWNED

HE TAKE-A-VIEW LANDSCAPE Photographer of the Year awards is celebrating its tenth year of cultivating inspiring and wonderful landscape images! One notable theme emerged from the 2016 award: the diversity of the landscapes across these isles. From wind-swept coastal views to urban reflections, the frantic buzz of rush-hour traffic to serene waters, and desolate, wild and untouched landscapes to gritty industrial scenes, there's no denying that the landscapes of the UK are a rich tapestry like no other, and the photographers that call these shores home and visit from afar alike have mastered the art of conveying this with style.

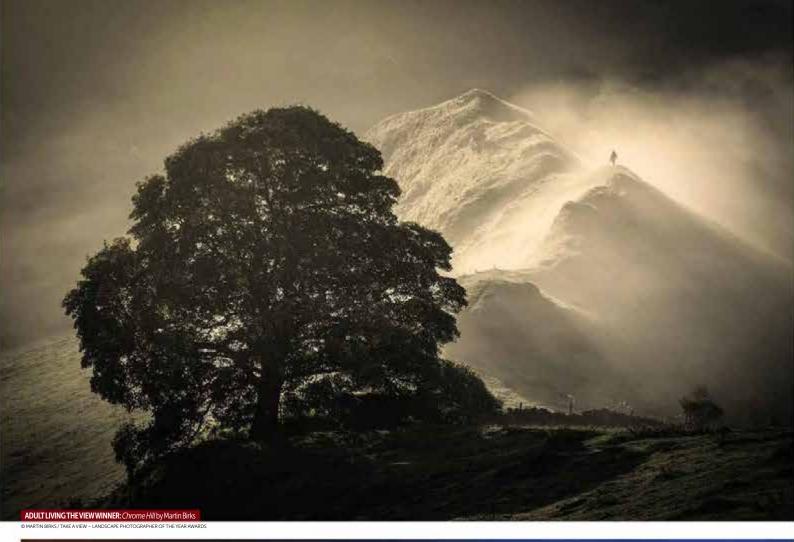
This year's Landscape Photographer of the Year was chosen as Matthew Cattell, for his dynamic image 'Starling Vortex' (above), depicting Brighton's skeletal West Pier, peppered by a flock of starlings above rough seas. Speaking of hearing about his accolade and the £10,000 grand prize, Matthew commented, "I was in utter disbelief and completely speechless and, even now, it still feels like a dream. To be held in such high regard amongst so many other talented photographers is truly humbling."

A host of other winners were named, including Hannah Faith Jackson as the Young Landscape Photographer of the Year, Mark Gilligan as the Great Britain #OMGB winner, Francis Taylor as the Network Rail Lines In The Landscape winner and Damian Ward as the Adobe Prize winner.

The Landscape Photographer of the Year exhibitions are hosted by Network Rail, and you can visit a free exhibition of this year's prized images at Waterloo Station, London until 5 February 2017. From there, the exhibition goes on a nationwide tour to some of Britain's main railway stations. There's also a book of winning images available – *Landscape Photographer of the Year Collection 10*, by AA Publishing, for £25, with a tenth anniversary book to follow in April 2017. For more information on the winners, exhibitions, books and future competitions, visit: www.take-a-view.co.uk





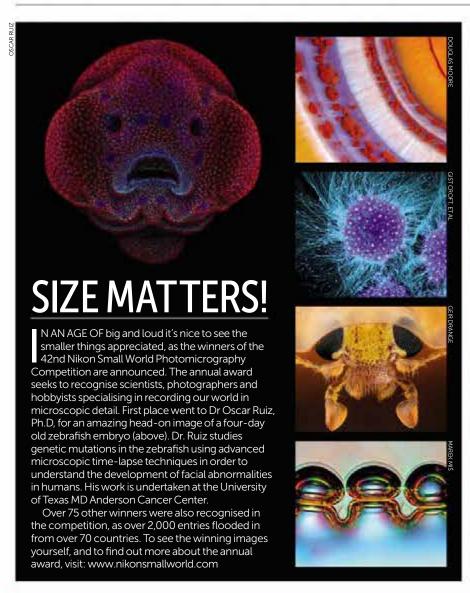














Pa

Patch

Price: Free (in-app purchases) / Platform: iOS If you're an iPhone user feeling a bit jealous of the new iPhone 7 Plus's fancy dual camera set-up and new bokeh-simulating 'Portrait Mode' then don't worry - Patch is here to help. Suitable for all iPhones, Patch doesn't rely on real depth information from the dual cameras to create the blur, but rather works via a very simple layer masking principle. You load in an image you've already taken (the app doesn't have a camera function) and Patch will do some maths to try and figure out what bits you want sharp and which bits you want to blur. You can then adjust this mask using eraser and brush tools. Surprisingly, it works quite well, providing you use the right kind of image. Patch tells you, very specifically, that it works best on portraits composed from above the waist up, but you might also want to avoid images taken against layers of different depths, as Patch just applies a uniform blur to the background. The mask tools are a bit clunky, and we'd like to see softer-edged and different size mask brushes, but the concept is great and works really well. For free, you can't complain!



WHAT WE'VE BEEN WATCHING

LOOKING FOR VISUAL INSPIRATION? HERE'S WHAT THE DIGITAL SLR PHOTOGRAPHY TEAM HAS BEEN WATCHING THIS MONTH...



O DRONE FLASH

By Elinchrom

Action sports? Check. High-speed sync flash? Check. Drone? Check. The ingredients for an exciting shoot are already there, and photographer David Robinson delivers the goods. David, along with Red Bull mountain biker Matt Jones, head to Austria to shoot an action image with a difference – it's lit entirely using drone-mounted Elinchrom studioflash. The idea behind the drone light was to make the light 'fit' within the scene, and make the light come from a natural direction – i.e. up above the rider, mid-jump. Great stuff! http://bit.do/DSLR_1221



SIR ELTON JOHN'S MODERNIST PHOTOGRAPHY COLLECTION

Bv Tate

You know him as one of the world's most popular musicians, but Sir Elton John is also a huge fan of photography, and boasts an impressive collection of prints. This tour of his 18,000 square foot Atlanta apartment showcases some of his favourite works. His collection exceeds 8,000 images, and the residence resembles an art gallery, with barely an inch of wall space free. Around 190 images from Sir Elton's collection are now on display at London's Tate Modern. http://bit.do/DSLR_1222

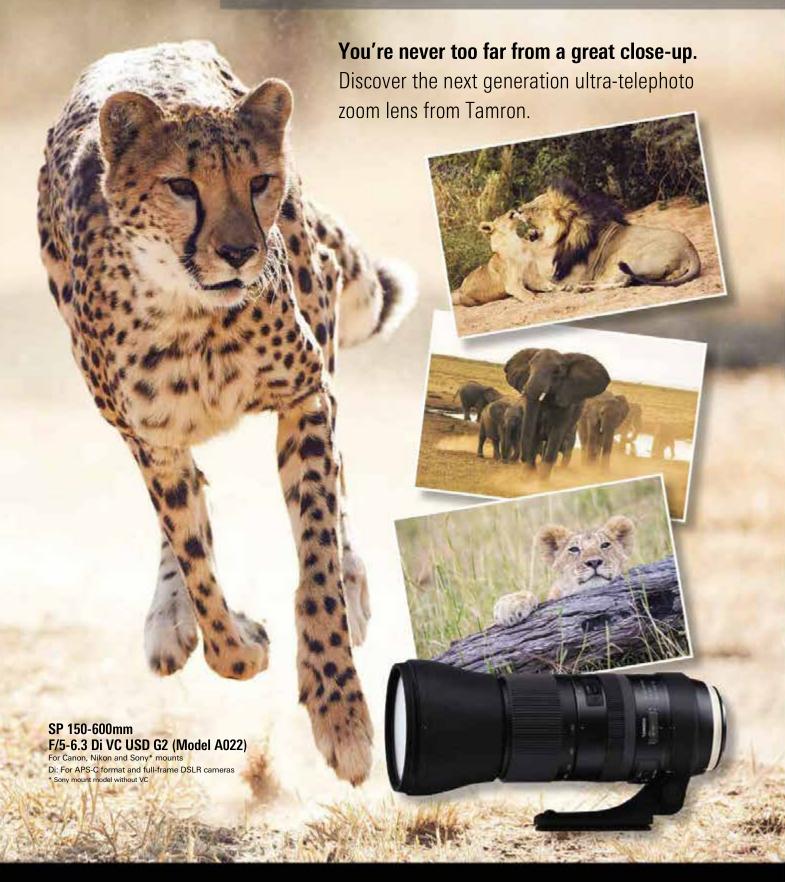


COMBINING FITNESS & FIRE PHOTOGRAPHY

By Brandon Wells

In this short behind-the-scenes video from a recent shoot, American fitness photographer Brandon Wells tackles the tricky technique of using fire to emphasise motion in fitness photography. By using a slow shutter speed, combined with a quick pop of flash in a dark gym, Brandon shoots a series of action images that record the fire as a streak of light, capturing an exciting, dynamic and effective portrait, whilst being conscious of the safety implications of working around fire. http://bit.do/DSLR_1223

SP 150-600mG2





Torridon

This wild and rugged region of the north west Scottish Highlands is home to dramatic mountains, ancient forests and picture que lochs. It makes for a great photographic destination at any time of year

LOCATION: NORTH WEST SCOTLAND / OS REFS: EXPLORER 433 TORRIDON – BEINN EIGHE AND LIATHACH



Torridon

Torridon, one of the wildest and most scenic parts of the west Highlands, is located on the Scottish mainland opposite the northern end of the Isle of Skye. The region offers high rugged mountains, wild glens, moorland, lochs of various sizes, pine and birchwoods, rivers, waterfalls, rocky coastline and sandy bays – all wonderful elements for successful landscape photography.

The village of Gairloch is a good place to base yourself for a few days (see *Useful Information*) and is also a profitable hunting ground for images. It's worth going for a wander around the small harbour just off the A832 near the Old Inn. There you can shoot colourful details of fishing nets, ropes, stacks of fish crates and peeling paintwork on the hulls of old boats – as well as the fishing boats themselves reflecting in the harbour water on a calm day. The sandy beach just beyond Gairloch Golf Club faces west, making it a good spot for sunsets – especially if the tide's receding and colour from the sky reflects on the wet sand.

Only a short walk from the Old Inn is the impressive Easan Bana Waterfall, more commonly known as Flowerdale Falls. Like all falls, much depends on the amount of water that's flowing in the river, which in turn is dependent on the amount of rain that has fallen, but more often than not the falls are in good flow and highly photogenic. Use a wide-angle lens to capture the falls and the river they feed flowing around boulders, or switch to a telezoom and fill the frame with











Lee Frost: "Why I love Torridon"



"The Scottish Highlands are a mecca for landscape photographers – nowhere else in the UK will you find such a diverse range of scenery. The

further north you travel, the wilder and more dramatic the landscape becomes, and Torridon is way north! It may take forever to get there, but once you do you'll find the region captivating and inspiring. I'll never forget looking down on Loch Maree at dawn and watching veils of mist drift over the water as the sun rose, or capturing mirror-like reflections of vibrant autumn colours in the flat calm water. Glen Torridon is a great place to spend a stormy afternoon, capturing the wild landscape beneath dark skies, while the views over Upper Loch Torridon from Ben Damph will take your breath away. If you enjoy shooting woodland, the Beinn Eighe National Reserve on the shore of Loch Maree is a must - it's home to ancient Scots pine and acres of birch trees that look amazing during autumn."

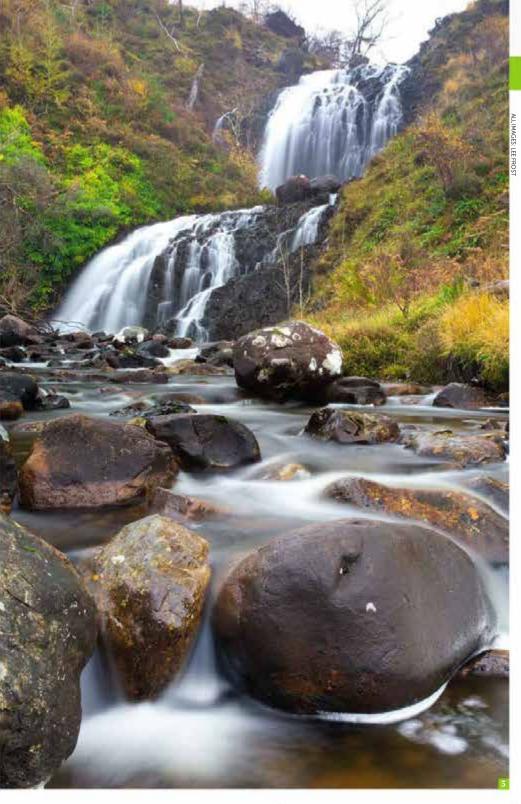
the upper falls cascading down a vertical cliff face. Shutter speeds of 1/4sec or longer will blur the water nicely. Overcast weather provides the best light for the falls and autumn is a great season to shoot them as the banks either side will be full of vibrant colour.

Heading south from Gairloch, the road runs along the west of Loch Maree, dominated on one side by one of Scotland's most distinctive mountains – Slioch. You get great views of the loch as you drive, and on a calm day the reflections are stunning, especially during early morning, so it's worth parking up and heading down to the lochside. There's a fantastic view of the islands in the loch from the Slatterdale car park off the A832, between Gairloch and Kinlochewe.

At the southeastern end of Loch Maree, just off the A832 near Kinlochewe, is the

car park and visitor centre for the Beinn Eighe National Nature Reserve – Britain's first National Nature Reserve. The reserve covers 48 square km, stretching from the loch to the mountaintop, and includes one of the best remnants of ancient Caledonian pine forest in Scotland. You can park there and get to the lochside as well as exploring the nearby woodland, while the Glas-Leitur car park about two miles west of the visitor centre on the A832 is where the mountain and woodland trails start.

A great dawn location is near Tollie Farm at the western end of Loch Maree. You get a fantastic view looking down and along the loch with the whitewashed farm buildings in the middle distance to add scale. Mist is quite common, especially during autumn, and this makes a wonderful addition to the scene.



Useful Information

Where is it? Torridon is in the north west of the Scottish Highlands, north east of the Isle of Skye and approx 60 miles west of Inverness.

Getting there: From the south take the A9 north from Perth to Inverness or the A82 via Fort William to Inverness. Continue on the A9 from Inverness, then take the A835 near Tore. Just after Garve turn left onto the A832. At Achnasheen continue on the A832 to Kinlochewe, where you can branch right on the A832 towards Gairloch or branch left onto the A896 towards Torridon. A slower but more scenic option is to travel to Fort William on the A82 via Rannoch Moor and Glencoe, then take the A82 and A87 towards Kyle of Lochalsh head and pick up the A890 Wester Ross Coastal Trail a few miles before Kyle. After Strathcarron, turn left onto the A896 and follow it to Shieldaig, Torridon and Kinlochewe. Travelling without a car or motorbike is impractical, though you can get as close as Achnasheen by rail from Kyle of Lochalsh or Inverness.

Places to eat and sleep:
Gairloch is a good base for exploring the area. The Old Inn (theoldinn.net) and its sister hotel
The Gairloch Highland Lodge (gairlochhighlandlodge.net) are good options to sleep and eat. Also consider The Myrtle Bank Hotel (themyrtlegairloch.co.uk) and Gairloch View B&B (gairlochview.co.uk) too.
Near Annat, there's The Torridon (thetorridon.com), which is quite pricey, but 100m away is the less pricey Torridon Inn, run by the same people.

Local camera shops:
Ffordes Photographic Ltd,
The Kirk, Wester Balblair, By Beauly,
Inverness-shire, 01463 783850,
(ffordes.com); Jessops, 26 High Street,
Inverness IV1 1JQ, 01463 235727.

To reach the viewpoint, take the A832 east from Gairloch or south from Poolewe and park up at or near the turnoff to Tollie Farm.

If you're heading there from Gairloch, you'll pass a small loch on your right just before you get to Tollie Farm – Loch Tollaidh. On a calm morning this is well worth a stop as the dawn colours will be mirrored in the still water. Either shoot there before going to the Tollie Farm viewpoint, or after. It all depends on the light at the time, so make sure you're in the area at least 40 minutes before sunrise so you can decide where to start without chasing the light.

At Kinlochewe, the A896 turns into Glen Torridon, which is wild and unspoilt and well worth a few hours of your time. The views of Liathach and Beinn Eighe from the shores of Loch Clair are unsurpassed anywhere

in the Highlands, so fingers crossed for a calm day! If you don't get ideal conditions, don't worry though as there are plenty of other options in the glen, from single trees captured against the sky, to slow shutter images of the river that runs through the glen (A'Ghairbhe). A bridge crosses the river near Loch Clair and gives you a great view down it. In Autumn you also get amazing colours in the glen, with the yellows of deciduous trees contrasting with the greens of Caledonian pines – use a telezoom to fill the frame.

At the western end of the glen, roads lead along both sides of Loch Torridon and it's worth making time to explore both. One leads to the secluded fishing and crofting village of Diabaig, which has been used as a location in several films. For many years there was a wrecked fishing trawler – the

1) LOCH MAREE: This scene shows a flooded tree after heavy rain. 2) GLEN TORRIDON: Wild scenery and vibrant autumn colours. 3) BEINN EIGHE NATIONAL RESERVE: A birch tree swaying in the wind. 4) UPPER LOCH TORRIDON: Adramatic view towards Beinn Alligin. 5) FLOWERDALE FALLS: This is a great location for photography and is found near Gairloch.

Dayspring – on the edge of Loch Torridon at lower Diabaig, that was popular with photographers, but it may no longer be there.

The other road runs along the South side of Loch Torridon and provides outstanding views across the loch to Beinn Alligin, with foregrounds of moorland, erratic boulders and pine trees. There are various viewpoints along the road, the most popular one being near the Ben Damph estate looking high over the loch to the distant mountains. It's an evening shot and if you're lucky, you'll get late light breaking and lighting up the

The Location Guide











Torridon

landscape, but the soft colours of dusk can work well too, even if you don't get direct light. There are numerous big boulders that you can use as foreground interest.

If time permits, it's worth driving along the north side of the Applecross Peninsula as far as Kenmore to take advantage of several locations with views back to the peaks of Glen Torridon. To get there head south from Shieldaig on the A896, then take a right just after you pass the southern end of Loch Torridon, and follow the road.

Ten miles west of Gairloch lies Red Point where there are beaches of reddish sand, low dunes and good rocky outcrops, while in evening there's the possibility of a sunset over the Isle of Skye. From the end of the road, a one mile walk leads to an abandoned salmon fishing station, which has proved a popular location with photographers – old buildings,

fishing items and rusty anchors – though we can't vouch for the state of the buildings. A short distance along the Red Point road are two small lochs, one with a tree-clad islet, and these make great locations on a calm, misty dawn. Another coastal location close to Gairloch is Rubha Reidh lighthouse, situated on a remote headland.

Heading north out of Poolewe on the A832, just before Tournaig, you'll pass a small loch – this is Loch Nan Dailthean. It's a fantastic location to shoot at sunrise, as you're looking east over the loch with great views towards dramatic mountains. If time permits, head back in the afternoon too, as the scene is bathed in warm light. In calm weather you can take advantage of reflections, and during autumn the colours are truly breathtaking.

Another option from Poolewe is to drive along Loch Ewe to Inverasdale and Cove, where there are beautiful deserted beaches, such as Firemore Beach, as well as good vistas looking inland. Alternatively, head to Mellon Udrigle where you'll find another stunning sandy beach, complete with shallow streams and sand ripples – well worth a visit at sunrise if you can squeeze it in!

The furthest north you're likely to venture is Gruinard Bay, where there are fantastic views over the bay and coastline from the side of the A832 – you'll see the bay appear below, so just park where you can. This view is best captured in the evening when the coastline is bathed in warm light from the low sun, or at dusk when the sun has set.

Torridon isn't as popular for photography as some other Highland regions, partly because it's so far north and also because it's not so well known. These are both good reasons to visit, because it means you'll be shooting scenes that haven't been shot a million times before, and it's unlikely you'll arrive at a location only to find there are already hoards of photographers there!



Start Shooting

Things to shoot: Torridon is home to a wide range of stunning scenery. Take your pick from dramatic mountains, beautiful lochs, unspoiled coastline, deserted beaches, ancient woodland, wild glens and picturesque waterfalls. When you're not shooting wide views you can capture intimate details. It's also a great place to experiment with long exposures and even shoot infrared.

When to go: Torridon, like the rest of Scotland, can be magical at any time of year. That said, autumn is perhaps the best season. The midges will be gone and the moorland vegetation will provide lots of rich colour, while the birch trees should be acquiring their autumnal goldenyellow. The weather can be variable, but that only adds to the wild, dramatic nature of the landscape. A mix of clear blue skies, storm clouds, rainbows, frost, mist and even the first snowfalls on the mountain tops can be expected in the space of a few days.

Recommended kit: A good general kit for landscape photography will cover all your needs. Zooms covering wide-angle to mid-telephoto (12-200mm for APS-C sensors and 16-300mm for full-frame) will allow you to shoot everything from sweeping views to distant mountains. Pack a tripod and remote release, plus the usual filters – ND grads, a polariser and a ten-stop filter. Weaker NDs (0.6 and 0.9) can be handy for shots of rivers and waterfalls.

6) BEN DAMPH: Upper Loch Torridon captured at dusk.
7) FIREMORE BEACH: It's a remote spot, but well worth a visit.
8) GRUINARD BAY: This stunning view is captured literally from the roadside 9 & 10) LOCH NAN DAILTHEAN: On still autumn days, this location is ideal for capturing stunning landscapes with perfect reflections and seasonal colours.

Keep shooting! Other locations near Torridon (*distances measured from Gairloch)



If you head to Torridon via Perth during autumn, stop at Pitlochry to photograph the stunning foliage colours on the banks of the River Tummel or Loch Tummel. The best views are from the pedestrian suspension bridge over the river.



If you have time after Torridon, head up to Ullapool and explore the Coigach coast for a couple of days. It's remote, unspoiled and quiet. At Achiltibuie you'll find old boats and fishing paraphernalia along the beach and stunning sea views.



If you take a Wester Ross Coastal Trail to Torridon, break up the long journey with a detour to the pretty village of Plokton, on the shore of Loch Carron. There's a picturesque harbour there and tranquil views over the loch.



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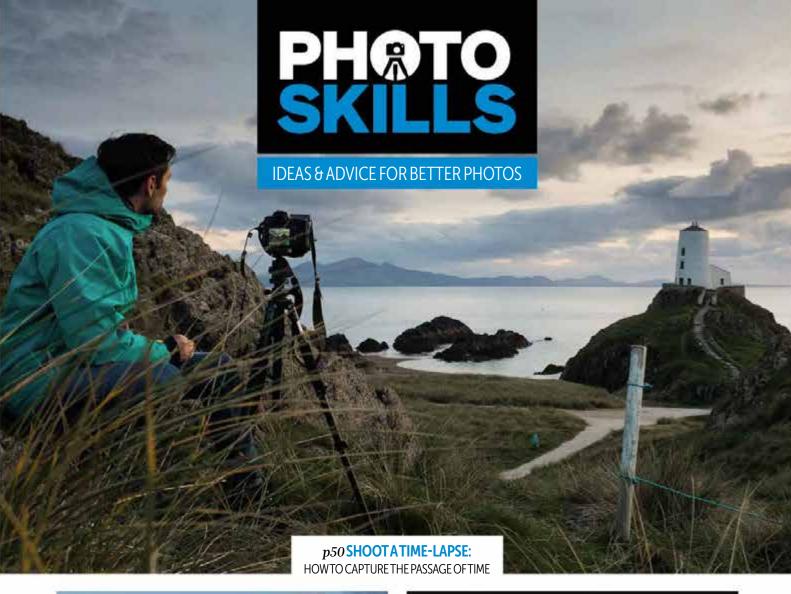
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p38 PIER PRESSURE: PHOTOGRAPH JETTIES AND PIERS LIKE A PRO



p43 HOME STUDIO: CAPTURE HIGH-END STUDIO RESULTS AT HOME



p46 FESTIVE FUN: A STILL-LIFE WITH THE SPIRIT OF CHRISTMAS



p54 **EDITATIME-LAPSE:** TURN STILLS INTO MOVING IMAGES WITH EASE



CALM WATERS

IT'S A CLASSIC LANDSCAPE IMAGE, BUT ONE THAT REQUIRES A CERTAIN ATTENTION TO DETAIL TO EXECUTE WELL. LANDSCAPE EXPERT ROSS HODDINOTT SHARES HIS PROFESSIONAL ADVICE ON PHOTOGRAPHING JETTIES

CAMERA: NIKON D810 / LENS: NIKKOR AF-S 17-35MM F/2.8



UST WHY ARE jetties and piers such popular subjects among landscape photographers? It's easy to explain photographers love water and motion, and jetties and launches are found nestled by the water's edge. They're usually wooden and tactile - getting weathered and misshapen over time. Therefore, they look beautifully in-keeping with their environment. Jetties also imply travel, serenity or escape to our subconscious. Compositionally speaking, they create perfect foreground interest too, providing a logical and effective lead-in to the landscape beyond. They look great shot from the shore, directing the eye from one edge of the frame to the other. However, shots also look good taken from the jetty create an enhanced feeling of symmetry.

They photograph well in colour, black & white and in all types of light. Jetties are hugely photogenic subjects – simple!

In the UK, one of the best places to photograph jetties is The Lake District, Cumbria. Most of the best-known lakes – for example, Ullswater, Coniston and Derwent Water – are home to a number of jetties, so you won't be short of choice. However, you can potentially find jetties anywhere where there is water – a little online research will reveal the options close to you. Using a sun calculator, like The Photographer's Ephemeris, you can predict the position of the sun in relation to your viewpoint beforehand. Doing so can be helpful, but you don't necessarily need a colourful dawn or evening sky to capture nice jetty shots. Jetties can photograph well

in almost any weather and even during the day, particularly if it's still, misty, moody or dramatic. However, one big advantage of shooting early or late in the day is that they're less likely to be busy with people. As a result, you can carefully set-up your composition and wait in one spot for the right conditions without fear of being asked to move, or a crowd of people forming in your shot!

I recommend a wide-angle focal range in the region of 16-35mm – this will allow you to get close and exaggerate the structure, while the zoom will offer versatility and precision. A tripod will provide stability and aid composition, while a slot-in filter system – like those from Cokin, Hitech or Lee Filters – will enable you to use graduated ND filters to control contrast and/or solid ND filters to creatively lengthen exposure time.



PH®TO SKILLS

CHECK THE WEATHER

Jetties often work as part of a peaceful, restful scene. For this reason, landscape photographers typically favour a still, calm day to photograph boat launches. I checked the local forecast for Keswick – where I was staying – on the Met Office App. With the wind predicted to be 4mph at dawn, I felt optimistic the water would be reflective. Although the weather looked cloudy, this didn't deter me – grey skies can actually

suit this type of scene well.

2 SHOOTING FROM THE SHORE
I arrived at my location – at
Ashness launch, Derwent Water
– over 30 minutes before sunrise,
to give me sufficient time to find
my spot and set up. I began by
shooting from the shoreline, using
the length of the jetty to direct the
eye from right to left. However,
I didn't like how the tops of the
wooden poles either jutted above
the horizon, or just overlapped the
trees in the distance. In order to
achieve better separation, I would
need to change viewpoint.

SHOOTING FROM THE JETTY
The slightly more elevated viewpoint offered from the jetty itself allowed me to place the poles below the horizon. By doing so, they stood out more clearly against the water. My first composition from the jetty itself was rushed and not thought through, though. With the jetty placed to the right of the frame, the composition looks unbalanced, while the closest uprights on the right overlap and 'merge' together. Not good.







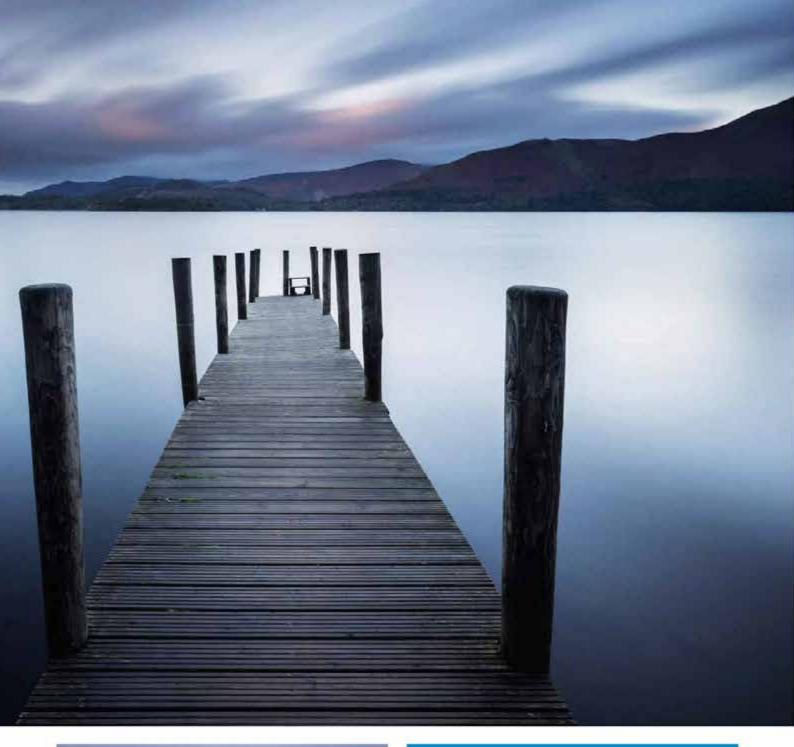




4 SYMMETRY You need to carefully consider your exact viewpoint and composition when shooting jetties in order to achieve the right separation and balance. This time, I took longer composing my shot, positioning my tripod and camera smack bang in the middle of the launch to allow me to shoot directly along the centre of the jetty. Doing so created a more pleasing, symmetrical composition, with the walkway creating a strong lead-in line and implied depth.



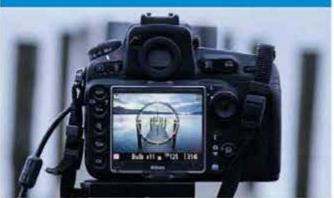
LONG EXPOSURE Unfortunately, the lake wasn't still enough to be reflective. To generate a feeling of calmness and tranquillity, I attached a ten-stop ND filter. My unfiltered exposure was 1/13sec. I used my Lee Stopper app to calculate that the exposure would be one minute 20 seconds with the filter in place. I switched my camera to Bulb mode and exposed for 80 seconds. However, the image was soft – I must have moved during the exposure and rocked the jetty.





FINAL SHOT I tried again — this time intentionally staying still throughout the exposure so that I didn't rock the jetty and cause degraded image sharpness. Despite the conditions being mostly overcast and relatively uninteresting, the length of exposure rendered the rippled water glass-like and helped generate some interesting cloud motion. The simple, but striking composition suited the scene, while the use of a wide-angle created an interesting perspective.

KEEPTHINGS LEVEL



Using a tripod will allow your eye time and opportunity to check that you have everything arranged equally, straight and balanced. To help ensure your camera is set up perfectly straight, try using a hotshoe-mounted spirit level or your camera's virtual horizon function – if it has one. On my Nikon D810, I can handily overlay the virtual horizon facility in LiveView by pressing the Info button a couple of times. By doing so, I could quickly and easily check that my camera was level.



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NO STUDIO? NO PROBLEM! CAROLINE SCHMIDT GIVES YOU SOME EXPERT TIPS ON SHOOTING HIGH-END PROFESSIONAL PORTRAITS IN THE COMFORT OF YOUR OWN HOME

CAMERA: NIKON D800 / LENS:NIKKOR 50MM F/1.4G / FLASH: NIKON SB800 & WIRELESS FLASH TRIGGER

HEN WINTER ARRIVES, it's easy to put down the camera with the excuse that it's too cold to shoot outdoors and you've no studio to work in, but just because you've not a dedicated studio doesn't mean your photography has to drop with the temperature. Any avid portrait photographer dreams of a space to shoot in that's decked out with the latest lighting gear,

props and plenty of room for creativity. The reality is, most photographers don't have that luxury. However, you don't really need your own studio – all you need is to temporarily take over enough space in your home to set up a background and a couple of flash stands with modifiers. Alternatively if you've got a good source of natural light, like French doors, you could use a pop-up backdrop or

dress foam core in wallpaper or fabric to utilise that space. There are no excuses really!

As you're likely working in close quarters, you'll need a focal length of 50mm or wider, depending on the crops you want and the distance you can put between you and the set-up. If you don't have space to step back a few metres and you want a full-length portrait, you may want to consider a 35mm lens.



PH@TO SKILLS

OW YOU CHOOSE to light your portrait depends on space and your desired end result, and in some ways bleaching the background is easier as you don't have to worry about shadows and only need two lights, set 45° either side of you – but, personally, I find that style can look quite unremarkable and ordinary. For a low-key shoot like this, using only one light and a reflector, you need to be particularly careful about crafting the light to limit uneven fall-off onto the background. This is one reason why feathering the flash for broad

lighting works well; the light skims the subject's face and mostly misses the backdrop allowing you to underexpose it. For the same effect with direct flash, normally you'd need to put several metres between the background and your subject to allow for the natural fall-off in light. Another reason for lighting in this fashion is that in most small studio spaces, you're often restricted by the height of the room and protruding ceiling lights, which can make positioning large modifiers at ideal heights and angles tricky or impossible – this way the flash only needs to be head-height.





SET-UP I'm working in a space of around 4x3m, but you can do this with less if you have a narrower backdrop; this one is 2.72x11m. Having cleared the space in my living room, I set up a backdrop stand and Colorama Storm Grey seamless. I've also added a pack of laminate flooring; a single pack that covers the width of my backdrop cost under £20. They're around one metre in length, which is perfect for the space I'm working in, but if you can put more distance between your subject and the background, I'd suggest buying two packs.

You could set up as many lights, reflectors and flags as you want, but here I'm using a single Nikon SB-800 flashgun inside an umbrella octobox. The larger the light source, the softer the light and this one metre octobox wraps the light around beautifully, especially at close range. It can help to put a mark on the floor, or a prop like a stool where you want your subject to be. For this technique you want them as far away from the background as you can, to limit the light reaching the backdrop and to keep it soft when using a mid-aperture.



BACKGROUND TO SUBJECT Here you can see what a shot would look like with a typical 45° light set-up and the subject close to the backdrop – it's okay but nothing special, looking a bit grey and flat. To increase contrast, put as much distance as you can between the background and your subject to reduce light spill. My subject is around two and a half feet from the background and approximately two feet from the light, which is just over three feet from the background.



aNGLE LIGHT AND SUBJECT Position the back edge of the modifier 90° to the subject's nose, and at their head height. It should be close enough to the subject that it's only just out of shot. If the light is angled too much towards the subject, your lighting will look flat; similarly, if the light is too far behind the subject's face you'll cast shadow on the opposite side. You want the light to kiss the face but fall off quickly. A reflector placed on the opposite side can offer helpful fill light.



SETTHE EXPOSURE Select manual mode and your camera's sync speed or slower; for the Nikon D800 that's 1/250sec, so I set it to 1/200sec and ISO 200. You'll need to expose for the skin and, with the flash power at 1/8th, you'll likely need an aperture between f/7.1 and f/10. Here, at f/7.1, the shot may be correctly exposed but the aperture is too wide for the desired effect. By stopping down to f/10, the shadows are deepened and the background is darkened for the final image.





FANCY A BREW?

IT'S THE TIME OF YEAR FOR SPICES AND COOKIES AND ALL THINGS FESTIVE! DINA BELENKO SHOWS YOU HOW TO CAPTURE THE MAGIC OF STEAM IN A SEASONAL STILL-LIFE THAT YOU HAVE TO TRY FOR YOURSELF...

CAMERA: NIKON D800 / LENS: AF-S VR MICRO-NIKKOR 105MM F/2.8G IF-ED / FLASH: 2X NIKON SB-910, STRIP SOFTBOX, DIFFUSER



HEN THE CHILL of winter hits, there's no more cosy sensation than curling up indoors with a hot beverage of your choosing. Wrap yourself in a blanket, take a cookie, brew some tea with cinnamon and honey (or maybe you prefer coffee, punch or mulled wine) and watch the steam rising above the cup—that's how Christmas holidays should be. Why not capture this cosy moment and take some photos? Granted, capturing steam may be tricky, but it's actually easier than it looks with the right approach.

The essential gear you'll need is a light source and a tripod. For my still-life it's two

flashguns (one inside a strip softbox and another behind large diffuser), but you can replace one flashgun with a reflector. Or even shoot with natural light using a nearby window! It's the position that matters – the main light source should be placed behind the scene to backlight the steam, and another should be to one side to fill in the shadows and add some volume.

Of course, this approach is the same whether you're shooting a still-life incorporating steam, as I am, or an environmental image, or even a portrait – backlighting is the key. If you're shooting a still-life, then all you need is a coffee cup,

some hot water and a couple of additional items to make your still-life set-up more interesting. You could go for a Christmas theme with some star-shaped cookies, gingerbread men, garlands, cones, fir branches and decorations, or pick something related to steam and clouds like steam-punk drawings or cloud formation schemes. Also, an incense stick may come in handy for your test shots too.

One last thing before we get started; it seems obvious, but boiled water is hot, so be careful, keep children and pets away from the set and don't forget to put your kettle on a heat-resistant surface.



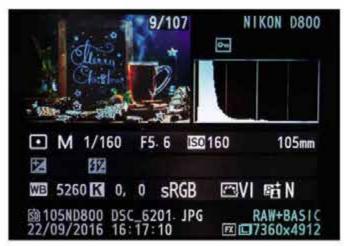




COMPOSITION Arrange your still-life into a simple composition, leaving some space in the frame for the rising steam. Place the cup in the foreground and keep the background behind and above it free from clutter and distractions. If you're struggling to find a pleasing composition then you can't go far wrong by using the rule-of-thirds.



2 FIRST LIGHT Set the first light source behind the scene. If you're using flashguns, you may want to use a snoot or a strip softbox to control the spread of light and emphasise the steam without getting unattractive highlights on the cup. If you're using window light then consider the positioning of your set (as you can't move a window!)



SETTINGS If you're using flash then set your shutter speed to match your flash sync speed. For natural light, a slower shutter speed and lower ISO will create a blur within the steam, whereas a fast speed with a higher ISO will capture more texture. Choose a wide to mid-aperture setting for an attractive depth-of-field – I've gone for f/5.6.



TESTING Here's a neat trick – rest a lit incense stick on the edge of the cup and take a couple of test shots to make sure that steam will be visible and well-lit. Smoke lasts longer than water vapour, so it's more convenient for the test. If you're using flash then set it to a low power (1/16 to 1/128) for a short duration that will freeze any motion.



SECOND LIGHT Depending on the environment, and whether you're using flash or natural light, you may need to add bounce or fill light to your scene. This can take the form of a reflector, a white sheet or, as in my case, a second flashgun set to low power behind a diffuser. I've positioned it in front of the set, to the side, opposite the main light.



SHOOTING Set your camera on continuous mode, focus on the cup, pour in some hot water and take a sequence of shots with the rising clouds of steam. Keep the kettle higher than usual so it doesn't creep into the frame – it may splash a bit, but the splashes add interest. Be careful with hot water, especially around electronic equipment.



COMMON PROBLEMS AND HOW TO HANDLE THEM...



1) SIDE AND FRONT LIGHT No backlight equals invisible steam. To remedy this, always make sure that your key light, or most prominent light source, is behind the cup.



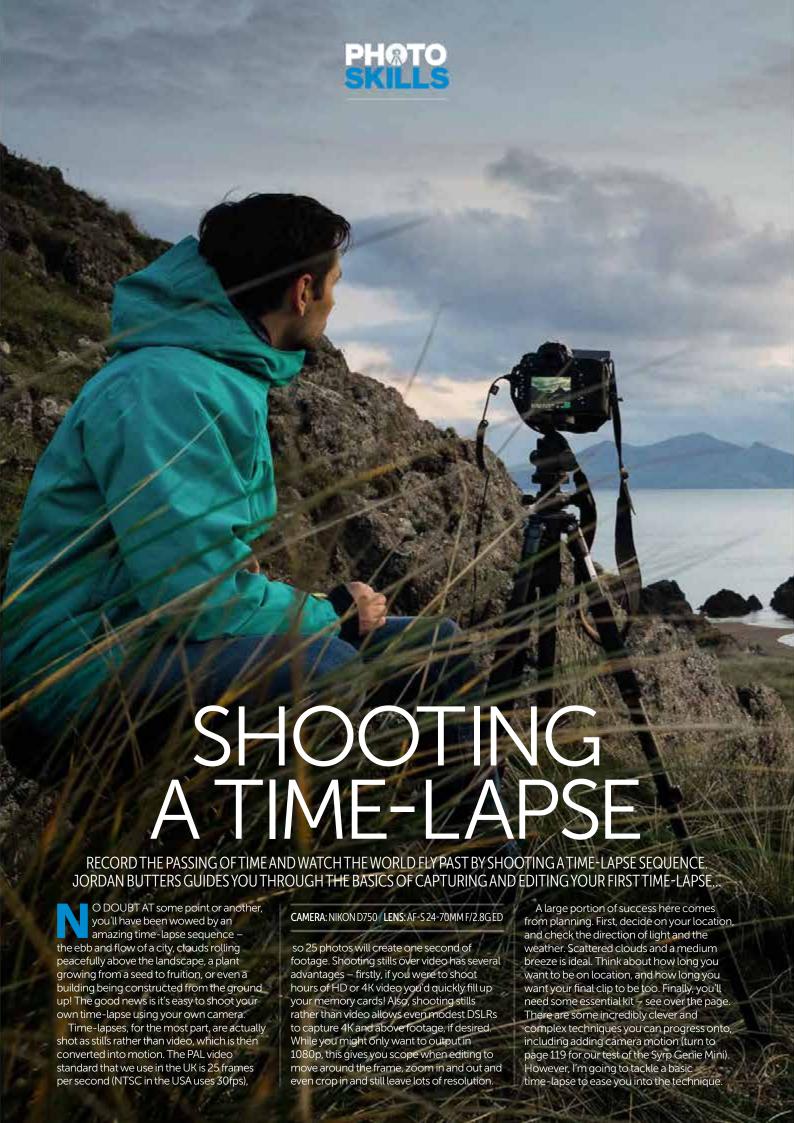
2) SHADOWS ARE TOO HARSH Images with high contrast can be beautiful, but if you're not doing it on purpose, try to preserve some shadow detail by using fill light or bounce light.



3) MISFOCUS Taking a sequence of images may confuse the autofocus system, so it's better to focus first, and then lock to manual focus to stop the camera from hunting between shots.



4) OVERSHARPENING Particles of water vapour are larger than smoke particles, so with excessive sharpening during processing they start looking noisy and unattractive. Dial it back a bit!



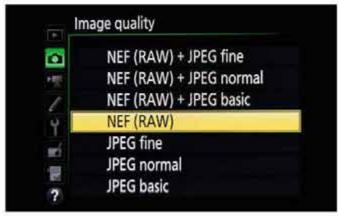




FIND COMPOSITION Once you're on location, find your composition. Time-lapses are most effective when there is clear movement or progression of time visible in the scene – think clouds rolling across the sky, shadows moving across the land as the sun moves, traffic building and dispersing or the flow of pedestrians in cities. Consider this when framing your time-lapse sequence. Once happy, lock your camera off on a sturdy tripod and attach your intervalometer.



WORK OUT THE INTERVAL To work out the interval (the delay between each shutter release) you need to consider what you're shooting, and how long you want the video to be. Referring to the guide to the right, I'm shooting slow moving clouds, so I'll use an interval of around three seconds. I want 15 seconds of footage so, at the frame rate of 25fps, I'll need 375 frames (15x25=375). With a three second interval, I'll need to shoot for a total of 1,125 seconds, or 19 minutes.



JPEG OR RAW? JPEG offers the advantage of being quick to process, and you can fit more images on your memory card. However I prefer to shoot in Raw, providing I have the memory space to do so. Raw takes more time to work with, but it offers an extra safety net when it comes to White Balance and exposure, plus you can easily sync any changes made to one Raw file over the whole sequence in seconds using Adobe Lightroom, Bridge or Camera Raw.

ESSENTIAL KIT

- CAMERA: Any DSLR or mirrorless model will do – as we're shooting stills it doesn't even need to support video! A12-megapixel sensor is still capable of outputting a 4K time-lapse sequence.
- LENS: Use a standard zoom, wide-angle, or telephoto lens. Lenses with manual rather than electronic aperture control are preferred to avoid flickering, but aren't essential.
- **TRIPOD:** A sturdy tripod is important to keep the camera still during the time-lapse. Models with a bag or accessory hook allow you to add ballast to the tripod to hold it steady.
- INTERVALOMETER: Some newer cameras have a basic intervalometer built-in, but if not they can be had from eBay and Amazon for under £20. Intervalometers trigger your camera's shutter at programmable intervals.
- FILTERS: ND grad filters allow you to balance the exposure, while solid NDs extend the exposure time, adding motion. Dragging the shutter often results in a smoother time-lapse.

QUICK INTERVAL GUIDE

ONE SECOND

- Clouds during strong breeze
- Fast moving objects or scenes
 Moving traffic in cities

1-3 SECONDS

- Sunrise or sunset
- Slow moving clouds
- People moving in a crowd

15-30 SECONDS

- Shadows moving across the land Sun/moon moving across sky
- Night sky and stars/Milky Way





STAY CONSISTENT Find your exposure by taking a test shot in aperture-priority mode. Use exposure compensation to gain a good exposure, and use ND grad filters to balance the land and sky, if needed. Expose for the scene at its brightest, otherwise your time-lapse may overexpose if the sun suddenly appears. Set your White Balance to match the conditions, clear your memory card(s) of all images and make sure your camera battery has plenty of life in it.





5 SHOOT Make a note of your settings from the test shot and transfer them into manual exposure mode – this avoids the exposure changing, which could lead to 'flickering' (see *Pro Tip*, over the page). Switch to manual focus, program your intervalometer with the interval you calculated and, when ready, press start. The intervalometer will do its thing and you can sit back and enjoy the view. All done? Turn the page to find out how to compile your video.



Shooting day-to-night, or night-to-day time-lapses can be tricky. In these situations, aperture-priority mode is preferred, as you tell the camera the aperture you want and it controls the shutter speed. However this often results in flicker (see ProTip, page 54). The alternative is shooting in manual mode and changing the shutter speed as the light changes. This results in bigger jumps in exposure, but these can also be fixed during processing, providing you shoot in Raw.



HOW TO ASSEMBLE YOUR TIME-LAPSE

ALL THATS LEFT TO DO IS TO COMPILE YOUR FRAMES INTO A VIDEO, LET US RUN YOUTHROUGH THE PROCESS USING LIGHTROOM AND LRTIMELAPSE ...

PROTIP

Flickering is where the exposure

changes slightly from one frame to

the next. It can be due to metering

between shots. Flicker is easily

removed in processing, if you

right software.

HERE ARE MANY different time-lapse applications available, each with different workflows. But, the basic method is always the same - edit your sequence so that every frame follows on from the last, and then compile the sequence into a changes in aperture-priority mode, or by video. If your sequence small physical variations in aperture looks perfect straight out of camera then simply import the JPEGs into your video editing software as frames. Remember you'll need 25 frames per second, so set the duration of each frame to 0.04 seconds to achieve this.

For this tutorial, I'm going to use Adobe Lightroom and LRTimelapse – a very clever piece of software.

> LRTimelapse is available as a free trial from Irtimelapse.com.

The trial is limited to 400 frames, so you'll need to create a folder on your computer and add a maximum of 400 unedited Raw files (don't import them into Lightroom yet). In the full version, you can use unlimited images. The software seems

complex at first, but take it slow and follow these steps and you'll get the hang of it.

TIMELAPSE SOFTWARE



Price: €119 (free trial) / Windows & OSX Works alongside Adobe Lightroom to

create smooth transitions through your sequence. There's a powerful deflicker tool, and can be used to create day-to-night transitions.

SEQUENCE

Price: USD\$35 (free trial) / OS X An easy-to-use standalone time-lapse assembler that can read and edit Raw images. Create keyframes, deflicker, and save projects as complete documents to revisit.

TIME LAPSE ASSEMBLER

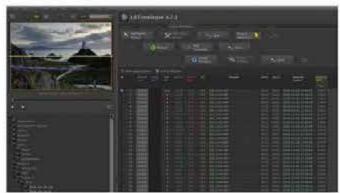
Price: Free / OSX

Abasic, but free assembler that allows you to import a sequence and export the results as a video. There's no deflicker options, so you'll need to handle that elsewhere.

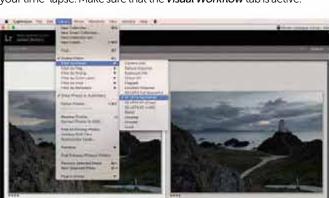
WINDOWS MOVIE MAKER

Price: Free / Windows

Lacks advanced options, such as deflicker and editing, but you can simply drag and drop your sequence in, set the duration of each image and output the results.



LOAD THE SEQUENCE Open LRTimelapse and use the navigator on the left hand side to locate the folder of 400 Raw files that you created (see intro, above). Select it and the Raw files will load, with lots of technical info - don't worry, you don't need to pay any attention to this. The buttons at the top of the window offer a logical workflow for your time-lapse. Make sure that the Visual Workflow tab is active.



IMPORT INTO LIGHTROOM Head back into LRTimelapse, click and hold on the *Drag to Lightroom* button and drag the button and drop it in Lightroom's Library module. The import dialogue will load, so click *Import* to add the images to Lightroom. Once imported, go to Library>Filter by Preset>01 LRT4 Keyframes. You will now have just two frames visible in the Library - these are the keyframes.



SET KEYFRAMES Click Keyframes Wizard and a slider bar will appear, allowing you to select how many keyframes you want to set. Keyframes mark the start and end of a transition, so for simplicity's sake, set the number to '2'. Once done, click the Save button – this saves the keyframes into the metadata, ready to load into Adobe Lightroom. Load up Lightroom and make sure the Library module is active.



EDITTHE FIRST FRAME Select the first keyframe, then press cmd $\mathcal{B}A$ (Mac) or *ctrl* $\mathcal{B}A$ (PC) to select all. Press the **D** key to enter the Develop module. Make any edits to your first keyframe, such as exposure, colour, or White Balance. This frame is the first in your sequence, so should represent how you want the time-lapse to look at the start. Once done, press the G key to head back to the Library.





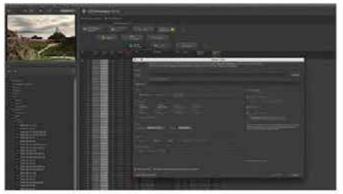
5 EDITTHE FINAL FRAME At the top, click on *Scripts* and select *01 LRTimelapse Sync Keyframes*. Next, select your final keyframe and make any editing adjustments to this too, if required. You are editing the first and last frames of the time-lapse, and the software will create the transition in between. This next part is important – once done, select all again, and then go to *Metadata>Save Metadata to File*.



CREATE THE TRANSITION Back in LRTimelapse, click on *Reload*, then *Auto Transition*, and then *Save*. Next, click on *Visual Previews* and the software will compile a preview. This takes time, but once done you can preview your time-lapse. The lines overlaid on your preview represent the changes in exposure. If the video flickers, use the *Visual Deflicker* button to apply deflicker using the slider, before clicking *Save*.



EXPORT SEQUENCE In Lightroom, go to *Library>Filter by Present>00 LRT4 Full Sequence*. Then, select all images again (*cmd/ctrl & A*)
and go to *Metadata>Read Metadata from File*. Next, go to *File>Export*and, from the presets options to the left, select *LRT (JPG, 4K)*. Make
sure that the LRTimelapse executable points to the LRTimelapse app,
and select an Output path for your sequence. Click *Export*.



RENDER THE VIDEO Lightroom will take some time to export the frames, so sit tight. Once done, an options box will open in LRTimelapse, allowing you to set frames per second, output path for the video and quality. Click *Render* and your video will start processing – keep an eye on the progress bar in the bottom left corner and an audible notification will tell you when it's done. Now enjoy your video!

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LOWLIGHT&NIGHT

AS DAYTURNS TO NIGHT, THE URBAN LANDSCAPE IS TRANSFORMED INTO A DAZZLING DISPLAY OF MAN-MADE COLOUR. THE TIME PERIOD YOU GET TO CAPTURE THIS IS BRIEF, HOWEVER, SO TO BAG GREAT IMAGES YOU NEED TO MAKE SURE YOU'RE IN THE RIGHT PLACE AT THE RIGHT TIME AND WORK FAST! TO SHOW HOW IT'S DONE, WE CHALLENGED READER AND ENTHUSIAST PHOTOGRAPHER ED HASLER TO COME UPWITH THREE GREAT SHOTS IN ONE EVENING, AND SENT SEASONED PRO LEE FROST ALONG TO HELP HIM OUT. HERE'S WHAT HAPPENED...



OW LIGHT AND NIGHT photography is a fascinating genre that encompasses many different subjects and techniques, both indoors and out, in natural or artificial lighting. At one extreme you have exposures lasting hours that capture star trails arcing across the night sky as the Earth rotates on its polar axis. At the other you have portraits shot in the light of a flickering candle. For most of us, though, night photography is about heading out into towns and cities with our cameras and tripods to capture the urban landscape – floodlit buildings, dazzling cityscapes, illuminated signs flashing their vibrant messages, traffic trails on busy roads at rush hour and towering office blocks with thousands of windows glowing against the darkening sky. Even the most mundane town by day takes on a whole new appearance and mood once the sun sets and man-made illumination takes effect. No matter where you live, it's possible to shoot amazing night and low light images

Success isn't weather-dependent so much either. Heavy rain is a bit of a no-no, though the urban landscape at night after rain can look stunning, as wet surfaces reflect colour from all around. But cloudy or overcast weather is fine because the sky turns a deep velvety blue as darkness approaches and it looks a million times better than it did a few hours earlier.

The most important factor is getting the timing right. The best night shots aren't really taken at 'night'. Instead, they're taken during the crossover period between day and night, when daylight levels have faded sufficiently to let man-made illumination add its magic touch, but there's still colour in the sky and enough light from the sky to help fill-in the shadows. This period is often referred to as the 'blue hour', although depending on the weather and time of year, you don't always get a full hour of shooting so you need to maximise the time you do have by coming up with a plan of action and working efficiently.

To see just what can be achieved on a single evening, we challenged reader Ed Hasler to produce three cracking low light images in London. It's a tall order to capture three winners, as there isn't a second to spare when darkness is just moments away, so low light expert Lee Frost went along to offer advice and make sure he completed the challenge with flying colours.

OUR EXPERT: Lee Frost



Lee is one of the UK's best-known landscape and travel photographers. During a career spanning three decades he has written almost 20 books, 1000's of magazine articles and led more than 150 photo workshops and tours. www.leefrost.co.uk

Lee's kit: Canon EOS 5DS and EOS 5D Mk III, Canon EF 16-35mm f/4 LIS USM, EF 24-70mm f/2.8LIS USM, EF 70-300mm f/4.5-5.6LIS USM, Gitzo GT3542LS tripod with Really Right Stuff ball head & FStop Loka backpack.

OUR READER: Ed Hasler

ROYAL NAVY



Ed works as a project manager at an investment bank, but when he's not working he loves getting out with his camera. He's been interested in photography ever since he bought a

110 film camera when he was about 12 years old!

Eds's kit: Canon EOS 5DS R, EF 24-70mm f/4L IS USM, EF 70-200mm f/4L IS USM, EF 100-400mm L IS II USM, Gitzo carbon-fibre tripod and Manfrotto 410 geared head & Billingham shoulder bag.



CHALLENGE 1: TWILIGHT

The weather on the day set for Ed to complete his challenges was forecast to offer a mixture of cloud and sunshine, which meant there could be a decent sunset. The sunset time for the day was at 4:20pm, so to maximise Ed's shooting time and give him the chance to make the most of the post-sunset glow, I met him outside Wapping station an hour earlier and we immediately set off to the first location about ten minutes' walk away, by the River Thames near Victoria Dock.

This location was chosen because it offers a fantastic view of Tower Bridge, The Shard and City Hall, three London landmarks. The sun would set to the left of the scene and out of shot, but if there was a colourful sky once the sun went down, that colour should carry over far enough to appear in the shot. Fingers crossed!

On arrival conditions were looking very promising, with plenty of broken cloud drifting across the sky. Better still, Ed and I had the place to ourselves so Ed could choose exactly where he wanted to set up his tripod, and there was at least 40 minutes before sunset, so no need to rush around. Perfect.

Ed got his gear organised and took a few test shots to check the composition. It was then a simple case of waiting for the sun to set and hoping for the best. Frustratingly, the closer we got to sunset, the more the cloud dispersed and by the time the sun dipped below the horizon, there was hardly any cloud left to 'colour-up'.

On the upside, what we were left with was a beautifully clear twilight sky with a rich orange glow near the horizon, fading into magenta higher in the sky, creating a stunning backdrop to the architecture in front of us. I could see from Ed's expression that he knew this shot was going to be a winner, but he was biding his time and waiting for conditions to be spot on. Every few minutes he'd take another shot and examine it on his DSLR's preview screen using a Hoodman loupe, to see how the lighting balance was shaping up. It wasn't long after sunset that we could detect a faint purple glow on Tower Bridge from





1) Light levels are dropping as Ed waits patiently for the right moment. 2) Ed frames his shot, ready to start shooting when the light is just right. 3) A hotshoe spirit level ensures a straight horizon. Looking good on the back of the camera!

floodlights, but there was still too much daylight around for that lighting to show up fully, so we played the waiting game.

Once you enter the crucial 'crossover' period between day and night, it really is a battle against the clock. It would be easy to just stay in one location and keep shooting until dark, but Ed had two more challenges to complete so that wasn't really an option. Equally, if we left this first spot too soon, his shot wouldn't fully do it justice. Ed captured the scene again. Then again. He took single shots in Raw format and also experimented with the in-camera HDR mode of his Canon EOS 5DS R to see if it could capture more detail. No filters were used as they weren't really necessary. An ND grad on the sky wasn't an option because Tower Bridge and The Shard were breaking into the skyline and would have been darkened by the darker area of the grad. However, if you get the timing just right so the natural and manmade lighting is in balance, you don't need grads anyway because the sky will be perfectly



CHALLENGE 1 Pro verdict

"This shot was entirely Ed's work. He suggested the location as he doesn't live far away, and he remained steadfast when it came to waiting until the balance between the fading daylight and the colourful man-made lighting was spot on. That patience paid off – this image is superb! The composition is strong, the colours are wonderful and the final shot has a polished look about it that any pro would be happy with. If you ever wondered what a perfect urban 'night' shot should look like, look no further – it's right here."

exposed along with the rest of the scene.

Ed remained as cool as a cucumber and was determined to nail this shot, even if it meant a mad rush afterwards. I was starting to grow anxious that we'd run out of time, but the scene looked stunning so I fully understood why Ed didn't want to compromise it. Fortunately, by 5:15pm, almost an hour after sunset, Ed nodded that he was happy and we could move on. Go!

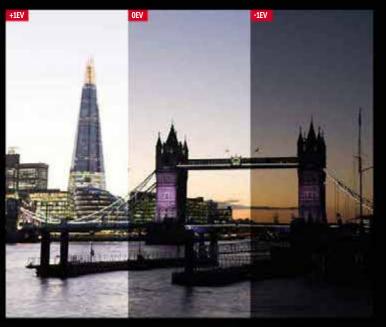


Using High Dynamic Range (HDR)

Although HDR has a reputation for producing horrible images, in sensible hands, HDR can be very useful. The main problem with urban night scenes is the level of contrast you have to deal with, from bright points of light to dark shadows. Shooting when daylight and artificial lighting is in balance will solve the problem as much as you can with a single exposure, but by shooting a series of images at different exposures then merging them, you can achieve even better results.

HDR software has come on a long way in the last few years. HDR Efex Pro is especially good, and can be downloaded for free along with the rest of the Google Nik Collection (www.google.com/nikcollection/). Photomatix Pro 5 is very popular too and only costs £72 for a full download, although you can try before you buy (www.hdrsoft.com). Don't forget the excellent Merge to HDR option in Adobe Camera Raw (ACR), the Raw processor for Photoshop and Lightroom either.

Some DSLRs have in-camera HDR capability. Ed's Canon EOS 5DS Ris one such camera and he made the most of it during our shoot. When set, it takes a series of three images then merges them in-camera. You can choose the exposure parameters of the sequence or select Auto and also choose between different effects, although Natural is by far the best. The final HDR image is saved as a JPEG, but you can elect to keep the three Raw files used for the HDR and merge them later using software – although the in-camera HDR is often more than good enough.





CHALLENGE 2: THE BLUES

With the first shot in the bag, we make a mad dash to the second location. Light levels are fading fast and we only have maybe 20 minutes before the last traces of colour in the sky fade. That's the frustrating thing about night photography – you wait and wait for everything to be perfect, but once it is, you're battling against the clock because peak conditions last for just a few minutes before they start a steady decline towards darkness. Before you know it, it's game over and you're wondering where the day went.

Ed decides to take another shot of Tower Bridge, but this time from the opposite side of the Thames, so we're facing in a more northerly direction where the sky is a deep blue. This is the classic 'blue hour' blue – deep, luscious and smooth, but it's soon to be black so there's no time to waste and we have a bit of a walk ahead of us.

Tower Bridge is closed to traffic while the road is re-surfaced and looks like a building site. Most of it is cordoned off and pedestrians are ushered along narrow walkways. It's rush hour on one of London's



most iconic landmarks, so as well as people heading home after a hard day at the office, we have selfie-shooting tourists to contend with as well. Hundreds of them! Ed and I squeeze through as quickly and politely as we can, considering we're wearing backpacks and carrying tripods, then dash down a flight of steps on to the Thames Path.

There's scaffolding everywhere, but fortunately, Ed finds a spot where he has a clear view of the bridge and sets up his gear as quickly as he can. It's another magnificent scene. The bridge looks resplendent with the towers now well-lit against the night sky. Framed under the towers is the Gherkin,



1) Ed quickly gets set up and starts shooting as soon as he can, while there's colour in the sky. 2) The temperature's dropping and Ed's dreaming of hot chocolate – but it will have towait!
3) Contrast increases as the sky darkens – in a few moments it will all be over. 4) The sky's now reached the point of no return – the contrast between sky and highlights is too large.

another fabulous piece of London architecture on the opposite side of the Thames. It's a shame there's no traffic crossing the bridge as the red and white light trails would add even more colour.

There isn't a second to waste. The sky is still fairly bright looking towards where the sun went down, but we're not looking that way because Ed needs to come up with something totally different to the previous shot. It is a challenge, after all!

Ed trips the shutter with his remote release and waits for the exposure to run. Light levels are much lower now so we're talking 20-30 seconds. It seems an age when time is against you, but eventually the shutter closes, an image pops up on the preview screen and it's looking good.

Experiment with White Balance

Your typical urban night scene contains numerous different light sources - daylight, mercury vapour, sodium vapour, tungsten, fluorescent, etc – and each one creates its own colour cast. More often than not, Auto White Balance (AWB) does a brilliant job of dealing with all those different colour casts, but it's worth experimenting with others too to see if they make much difference. This split-image shows the same scene shot using different in-camera WB settings, though if you shoot in $Raw, you \, can \, change \, the \, White \,$ Balance during processing.







The camera is picking up more colour in the sky than our eyes can detect, which is great because it buys us a few more minutes before contrast goes through the roof.

Ed's not totally happy with the composition, so he moves a few metres further along the path and straddles the railings on the wall with his tripod legs so his camera overhangs the river a little more. He re-shoots and prefers the shot to the last one. The exposure is a little low so he dials in +1/3 stop of compensation and shoots again.



There are some highlight warnings flashing away on the preview image now, but I tell him not to worry – we're looking at a JPEG on the back of the camera, and once he opens the Raw file on his computer screen those blinkies will probably be gone. If not, no worries – some of the lights in the scene are very bright, so if they come out white it's no big deal; it all adds to the impact of the scene.

Ed keeps shooting, experimenting with different exposures. He also tries his camera's HDR mode again to extend his

CHALLENGE 2 Pro verdict

"Another stunning shot from Ed. Time was against us here. Having spent ages waiting for the light level and balance to be just right at the first location, we then had a rush on our hands at the second. Fortunately, Ed knew exactly where he was going and how he wanted the shot to look, so as soon as we arrived he got on with the task at hand and had the shot in the bag within minutes. A bit of post-production and there you have it – one of the best night shots of Tower Bridge that I've ever seen."

camera's dynamic range and see if he can pull a little more shadow detail out of the scene. It's really a case of trying to make the best of the light we have, knowing that he has a great shot in the bag and the pressure is off. Which is just as well, because within 15 or so minutes of us arriving, the sky is almost black and there's no point shooting the scene any longer.

The Photo Workshop

CHALLENGE 3: INSIDE JOB

On a typical evening you'd be hard-pressed to bag more than a couple of good night shots before the sky fades to black. No matter how well you plan it, there just isn't enough time. Ed did well. Thanks to the clear weather, the sky remained colourful for longer than it would if it had been cloudy. Nevertheless, by the time he completed the second task it was game over. No amount of HDR or Photoshop trickery was going to pull any colour out of that sky – even London light pollution wasn't helping!

The problem was that Ed still had a third and final challenge to complete. Luckily, I'd thought ahead. I knew that there were office buildings over the Thames from near where we were, such as 20 Fenchurch Street (otherwise known as the Walkie-Talkie building), that would make good telephoto subjects – zoom-in, fill the frame with the pattern of hundreds of windows and there's no need to include sky. Job done. I put this to Ed and we started heading along the Thames Path past HMS Belfast until we had a clear view across the river.

En-route, we passed the entrance to Hay's Galleria, an old wharf that's now a trendy development of shops, offices and cafes. The building has a beautiful glass and steel arched roof and as I peered in, I suddenly had a brainwave – why not shoot a low-light interior instead?

Ed nodded in agreement and we wandered in. The tripod police are notorious in London on private property, so there was a very high probability that as soon as Ed started extending the legs of his Gitzo, we'd receive a tap on the shoulder and a polite request to sling our hooks. To our amazement, it didn't happen. There were plenty of people coming and going but security wasn't among them and Ed was able to set up his tripod and camera in full view of everyone without a problem.

I took a few handheld shots with my camera at high ISO to see how the interior looked. I was pleasantly surprised. Ed got to work doing it properly and I suggested he shoot at around 24mm on his full-frame camera. You could easily go wider, but it wasn't necessary. Ed's initial shots looked a little untidy as he included the galleria floor in the composition, so I raised his camera to exclude it and the composition immediately worked better. Doing this also meant that if people were walking through the scene, they wouldn't appear in the shot so Ed could keep shooting.

Once Ed had found the perfect central spot for his tripod, he got straight to work, experimenting with different focal lengths and exposures to find the best compromise. Zooming in compressed perspective a little and enhanced the repetition in the building's design – the columns supporting the roof and the pattern of arched steel beams in the roof itself. Technically it was a relatively straightforward shot to take, and once we realised the tripod police had gone home, Ed could work in a more relaxed way.









"What a great way to end the workshop. Ed has done a brilliant job yet again and produced an image for which he should be proud. We were lucky at this location that it wasn't too busy with people and that security didn't make us pack up and leave. Initially, Ed was shooting wider views of the galleria, but I prefer this version. The composition is nice and tight and really emphasises the repetition in the design of the interior. The verticals are also well-corrected, the exposure is spot on and the warmth from the interior lighting adds a nice mood to the image."

Deciding to shoot indoors for the final challenge rather than outside proved to be a wise move for several reasons. Not only did it add a totally different shot to the set, and proved that even when the sky has lost its colour for the night, there are still great photographs out there, but the temperature inside the galleria was about 10°C higher than outside! Most important of all, just out of shot was a Costa coffee shop, and the smell of freshly-ground coffee eventually proved just too hard to resist!



1) The first shot – a work in progress but it shows potential.
2) I tweak the composition then explain to Ed what I've done and why. 3) A remote release is invaluable for night and low-light photography. 4) Ed in action, trying to look as discreet as a man carrying a large camera and tripod can!

WORKSHOPSUMMARY: Ed Hasler



"Tower Bridge is one of my favourite locations to photograph as it's just on my doorstep, and also a fantastic subject to shoot. I've known Lee for over ten years, having been on a number of his

photography tours, and was eager to see his take on a subject I thought I knew very well. Lee had encouraged me to plan ahead, and I had come up with a list of locations that would make the most of the light. At the first location, the light was changing constantly as the sun dipped below the horizon, and then as the sky turned darker, we rushed over to Tower Bridge to the second location to catch the last of the light in the sky. We just made it, and minutes later the sky was too dark, which highlighted the importance of selecting a location in advance, and planning when to be there."





© FLORENCE CATHEDRAL

by Peter Sampson

Nikon D5100 with AF-S 16-85mmf/3.5-5.6G lens. Exposures: Eight, 15, & 30 seconds at f/16 (ISO 100).

What we think: This is a tricky location to photograph. Il Duomo di Firenze is tightly hemmed in on almost all sides by the city, and it's always very busy too. We like the composition here, showing the scale of the cathedral next to the surrounding buildings. Peter tells us he took three exposures to capture the full dynamic range – the HDR effect has been handled sensitively and the motion in the crowd adds interest to the foreground. Watch out for duplicity in the crowd – some people appear twice and this gives away the multiple exposure effect.

Why it works

- ✓ Interesting composition
- HDR handled well
- Crowd motion adds interest







TRAVEL EXPERT Jon Hicks



"Being a fan of architectural photography and long exposures, Peter's shot of Florence's beautiful Duomo should be right up my alley.

Well, it very nearly is: the exposure's been nicely controlled in the upper half of the image and the cathedral's dome sits comfortably between the tower on the left and buildings on the right. It's quite dark along the bottom, however, with the figures almost disappearing into the murk; an easy fix with a Curves adjustment layer in Photoshop, but maybe waiting a little longer to shoot at twilight when the lights came on would've been better. And I'd definitely take out the man in the white shirt who appears twice. From experience, the cathedral is best shot from a distance and a short walk across the Arno, followed by a steep climb, is rewarded with stunning city views from Piazzale Michelangelo. An awesome viewpoint, not only for the Duomo but the whole of Florence."

GEISHA WITH SWORD

by Pete Clare

Nikon D610 with AF-S24-70 mm f/2.8 G lens. Exposures: 1/125 sec at f/8 (ISO 100).

What we think: Colour can transform an image, and flash gels are a great way to add creative colour to an image. Pete's overall use of light is good – the central key light is neutral, with the contrasting red and blue lights adding edge highlights. However, we feel that the story behind the image needs more consideration. Why are the colours there? Are those police sirens? It doesn't seem to all fit together. The subject is interesting already - the tattoos, sword and exotic appearance secure your attention. Add in the coloured lights and there's a lot going on. Maybe a low key lighting set-up would work better? With intriguing shadows adding to the mystery. We've mocked up a quick black & white version to the right in Photoshop to demonstrate.





CRASHING WAVES

by Sandy Dee

Canon EOS 5D Mk II with EF24-70 mm f/2.8L II USM lens. Exposure: 1/160 sec at f/8 (ISO 200).

What we think: This is a dramatic portrait! In turning her subject's head towards the flash, Sandy has ensured a good exposure on her face. The image is very high contrast, and the light is biased heavily towards the flash, but this is down to personal taste and may have been the look Sandy was going for. We'd have liked a bit less contrast. The black dress isn't helping, but to reduce subject contrast, Sandy could have moved the light around to the front more, used a larger light source, or simply moved the light source closer, so the light 'wrapped' around more.

Why it works

- 1) Underexposed ambient adds drama
- 2) Dramatic location
- 3) Pose ensures good exposure on face



PASSION

by Frances Tsai

 $Panasonic Lumix GH4 with Voigtlander Nokton 17.5 mm f/0.95 lens. \\ Exposure: 1/10 sec at f/0.95 (ISO 400).$

What we think: The Voigtlander 17.5mm f/0.95 is an incredibly fast lens for Micro Four Thirds users – people call it the bokeh machine! Well done Frances for actually getting anything in focus at f/0.95! While a shallow depth-of-field is attractive, and this image is nice enough, there are still areas where more attention could have been paid to. The rose is positioned on the intersection of thirds, but there's little else going on. A closer crop, and a more central composition would be stronger, we feel. Finally, most lenses are slightly soft wide open, and this is no different. Stopping down a stop or so would improve image quality and sharpness, and not lessen bokeh too much. Let's see what Ross thinks...



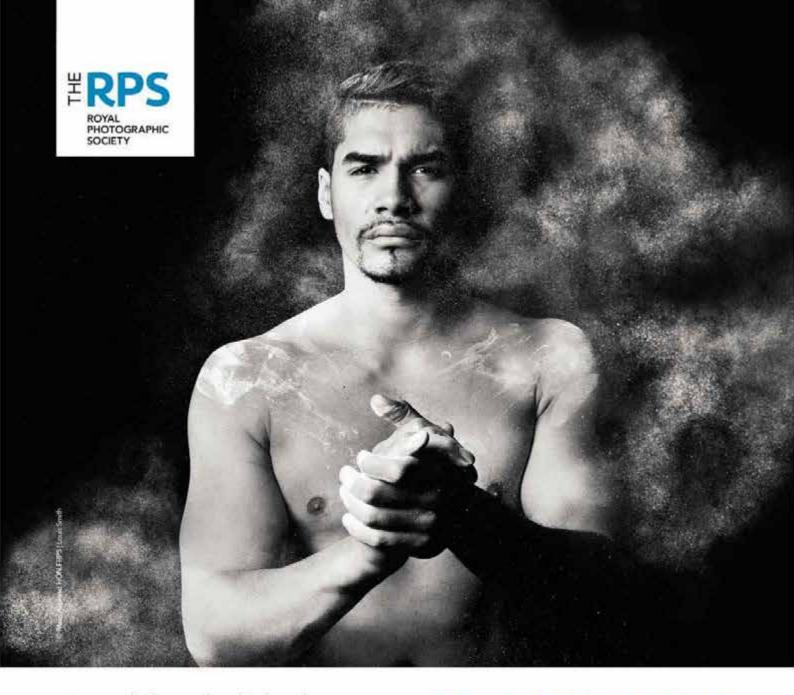


CLOSE-UP EXPERT Ross Hoddinott



"This is really quite a lovely shot. Frances has taken advantage of the Voigtlander's unusually large f/0.95 aperture to create an image with a

lovely soft and romantic quality. The wonderfully diffused background really helps the rose pop from its surroundings, and I love the way the petals begin drifting away into soft focus almost immediately – this is a good, creative use of a shallow depth-of-field and Frances's focusing is spot on too. Looking at the image with a critical eye, I'd question the benefit of including the leaves in the bottom right corner – to my eye, they needlessly add a distraction to the composition rather than contributing to the image. In this instance, a tighter crop would be the solution. From a technical viewpoint, there are a few slightly bright highlights on some of the rose's petals. Maybe a tiny bit more light diffusion would have helped keep them under control. All in all, a beautiful image, though. Top stuff, Frances."



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MARC ASPLAND HON, FRPS Chief Sports Photographer, The Times Newspape

I still pinch myself about being a member of The Society, to win an award, any award, makes me the most happiest snapper. It's a true honour to be recognised by The Royal Photographic Society.



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Become a part of the community and post your best shots to our wall. We regularly monitor the page and will be in touch if your work catches our eye!

FLICKR: Visit: www.flickr.com/ groups/digitalslrphoto to upload your images to our Flickr group. POST: Burn your high-res images as JPEGs onto a CD/DVD, including a 'mugshot', and produce a contact sheet with location and technical details. Put it all in an envelope with a covering letter, including the submission form below and post to: Digital SLR Photography, PO BOX 1327, Stamford, Lincs PE2 2PT. Enclose an SAE if you'd like them returned.

Digital SLR Photography contact form

Tick a box and fill in your details if you would like to submit images or take part in *Photo Workshop*.









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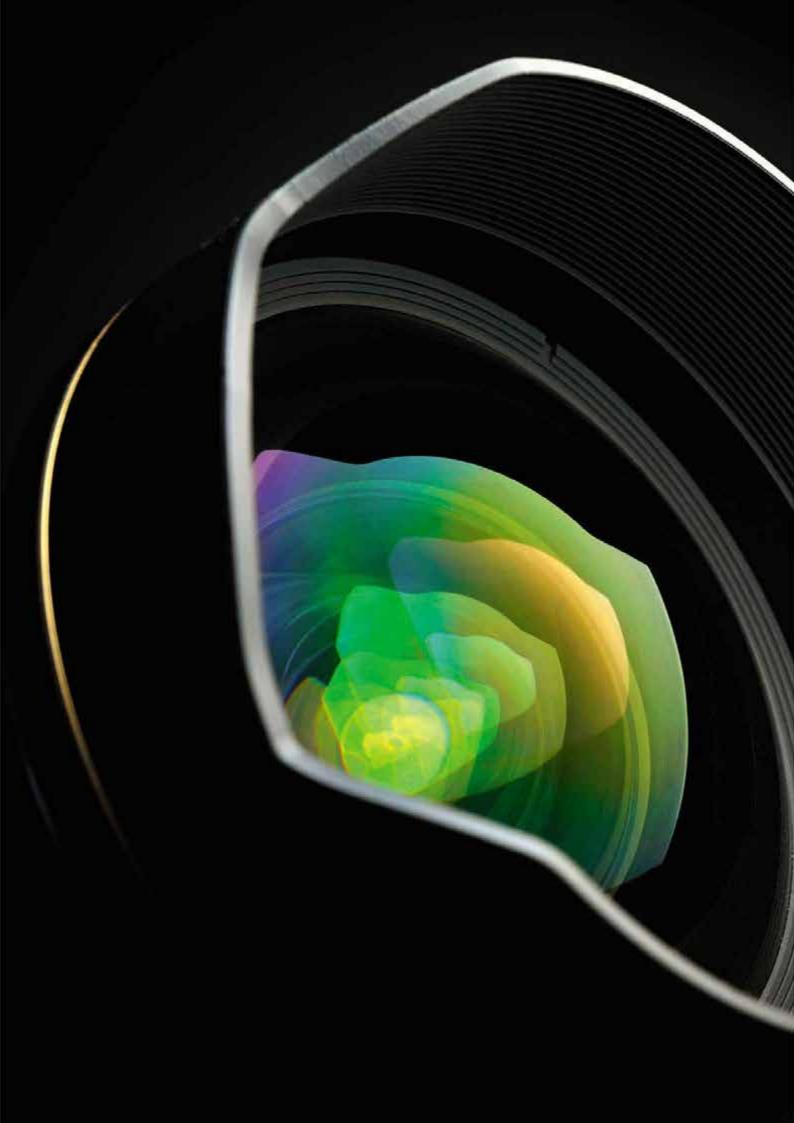
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For a full set of picture guidelines, or to ask any questions, please email *enquiries@dslrphotomag.co.uk*

Checklist

- If submitting images by post, remember to include your 'mugshot' and contact details (name, address, email and daytime number).
- ✓ Please don't send us high-res images by email: resize your shots to 1,000 pixels along the longest edge and if we see something we like, we'll request the high-res file from you!
- ✓ Emails exceeding 8MB total size might not arrive, so split your submission down into two or more emails to ensure they get through.
- ✓ Please don't send us your entire portfolio – as you may appreciate we receive a lot of submissions and aren't able to look through hundreds of images – narrow the selection down and pick your best shots only.



<u>The</u> Beginner's Guide

LENSES

CHOOSING A CAMERA IS AN IMPORTANT DECISION FOR EVERY PHOTOGRAPHER, BUT SELECTING THE BEST TYPES OF LENSES TO USE WITH IT IS EVEN MORE IMPORTANT. THIS MONTH'S GUIDE COVERS ALL THE KEY TYPES OF OPTICS AVAILABLE FOR DSLRS AND MIRRORLESS MODELS TO HELPYOU SELECT THE PERFECT OUTFIT

Words: DANIEL LEZANO

OW MANY LENSES do you currently own? If you're new to photography the answer is probably two or less – the standard 'kit' zoom that came with your camera and a budget telezoom that allows you to fill the frame with more distant subjects. That's a good outfit to begin your journey into photography, offering a versatile range of focal lengths that can handle a good scope of topics, but once you've been taking pictures for a few months, you'll probably find you soon want to add to your options.

If you're using one of the major camera brands, you'll discover an extensive number of compatible lenses. As well as the branded optics, there are several independent names that offer alternatives too, usually at lower prices than the marque lenses. So whether you're a wildlife fanatic looking for a powerful telephoto, a landscape lover on the hunt for the best wide-angle or a close-up fan wanting a dedicated macro, there are lenses for you.

Having this choice is great news in the sense that whatever area of photography pulls your strings, there are a number of suitable lenses available that will help you improve your photography. However, it also means that picking the most suitable is made all the more difficult due to the sheer number of options.

In this month's *Beginner's Guide*, we'll help you plan your next lens purchase or two by providing you with all the essential information you need on the main types of lenses, along with what we consider are some of the best options in each class. Read on, and prepare to add to your arsenal of optics.

INTRODUCTION TO LENSES

DO YOU KNOW YOUR ULTRA-WIDE ANGLES FROM YOUR SUPER-TELEPHOTOS? HERE ARE THE MAIN TYPES OF LENSES AVAILABLE FOR YOUR DIGITAL CAMERA

HE LENS YOU use on your camera determines how the scene in front of you will be recorded. Therefore it's essential that you understand the various types that are available and the distinct characteristics of each type of optic.

The key factor that will determine which lens will be the next to add to your outfit is the type of subjects you shoot. If landscapes are your thing, you'll most likely be looking at wide-angles, if you prefer portraits a short telephoto is most apt, while if you enjoy a variety of different subjects it may be that you need to invest in a couple of zooms, or alternatively a far-reaching superzoom.

Whichever type of lens you decide to go for, you'll find several options available with very different price tags. There will be plenty of budget lenses that represent good value, mid-range models with better quality optics and premium lenses with superior glass, build quality and AF performance. On this page we cover the main classes of lenses, which cover the majority of types available. There are some other, more specialist and unusual options, which we'll be covering further on in the guide.

MAIN CLASSES OF LENSES

Lenses are generally classed according to the focal length, or range of focal lengths that they cover. Studies show that the human eye has a cone of visual attention of around 55°. This is the equivalent of a 43mm lens on a full-frame camera, so lenses at around 50mm (32mm on APS-C) are classed as 'standard' lenses. Meanwhile, those with a wider angle-of-view are typically classed as wide-angles and those with a narrower field-of-view are known as telephotos. Some zooms, such as the 18-55mm or 24-105mm have a range that cover all of these focal lengths.



1) WIDE-ANGLES This is the lens of choice when you want to include as much of the scene as possible. Anything from around 24mm to 35mm (or 15-24mm on APS-C) is considered a moderate wide-angle, while wider focal lengths are classed as ultra wideangle. Go even more extreme and you'll start to see lenses referred to as 'fisheye', which distort reality, offering a typical field of view of between 100 to 180°!

2) TELEPHOTOS When you want to isolate a small area of the scene, or fill the frame with a subject, a telephoto lens, either zoom or prime, is the lens for you. Telezooms come in various focal lengths from the popular 70-300mm (or 50-150mm on APS-C) to super-telephoto lenses over 400mm (over 250mm on APS-C). Prime telephotos are available too, with fast, powerful professional super-telephoto primes being some of the most expensive. Price tags for these resemble those of a small family car!

Q&A: LENSES



What are the major differences between budget and premium lenses?

The key difference is the optics – more expensive lenses usually have a more complex design with better quality glass and a wider maximum aperture. Build quality is better too and the AF is often faster. With lenses, you usually get what you pay for, so always buy the best you can afford.

Should I buy a prime or zoom lens?
There's no easy answer. Primes are usually smaller, faster and better quality than zooms, but the latter offers the convenience of several focal lengths. If you're happy changing lenses regularly, opt for primes, otherwise start with a couple of zooms covering the popular focal lengths.

Can I use one lens fitting on several different brands of camera?

Rarely. Every brand has its own lens mount, so they're not universally compatible. However, Olympus and Panasonic's mirrorless systems use the same mount, so you can swap between their lenses. You can find unbranded mounts on eBay that allow you to swap lenses between systems, but most limit lens features so you may find you lose AF and/or control of the aperture.

Are independent lenses any good or should I stick to the marque brands?

Independent brands like Sigma, Samyang and Tamron produce great lenses, so you should consider them. They're often more affordable and unless you're critical it's hard to notice any major differences in quality. Most now manufacture lenses with premium optics that match or even better the performance of marque lenses – Sigma's Art lenses being one example.

THE CROP FACTOR

This image (right) shows how a scene is captured using the same focal length on cameras with different sensor sizes. As you can see, the smaller the sensor, the more the image is 'cropped'. While this is good news for telephoto users who effectively gain extra pulling power, it's not such good news for wide-angle lovers, as the field of view is restricted, so less of the scene is included.

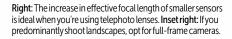
DIGITAL-ONLY LENSES

When you're buying a lens, you need to check to see if it's compatible with your camera. Some lenses are designed for use with full-frame and APS-C sensors, such as Canon EF, Nikon FX, Sigma DC and Tamron Di lenses. However, some are designed specifically for APS-C, such as Canon EF-S, Nikon DX, Sigma DG and Tamron Di II lenses.



EFFECTIVE FOCAL LENGTHS

HEN IS A 50mm lens not a 50mm? When you fit it to a camera with an APS-C or smaller sensor. One of the most confusing aspects of lenses is how the effective focal length of a lens depends on the camera it's used on. The focal length stated on lenses relates back to 35mm SLRs, which produced images the same size as today's full-frame sensors (36x24mm). So when you use a full-frame camera, the stated focal length on your lens is accurate. However, when lenses are fitted to cameras with smaller sensors, the effective focal length is increased. Because this results in you effectively cropping out the edges of the full-frame image to magnify the central area, it has led to smaller than full-frame sensors being termed cropped-sensors, while the change in focal length is known as the crop factor. This can be initially confusing but once you know the crop factor of your camera's sensor, you simply need to apply it to each lens to get the effective focal length. Our tables below show the crop factors of the major DSLR and mirrorless brands for easy reference (below right), as well as examples of how these crop factors affect the effective focal lengths of popular lenses (below).





Focal length on lens	Sensor size			
	Full-frame	APS-C (all brands except Canon)	APS-C (Canon)	Four-Thirds & Micro Four-Thirds
	1x	1.5x	1.6x	2x
14mm	14mm	21mm	22mm	28mm
20mm	20mm	30mm	32mm	40mm
24mm	24mm	36mm	38mm	48mm
28mm	28mm	42mm	45mm	56mm
50mm	50mm	75mm	80mm	100mm
85mm	85mm	127mm	136mm	170mm
100mm	100mm	150mm	160mm	200mm
300mm	300mm	450mm	480mm	600mm
500mm	500mm	750mm	800mm	1000mm
10-22mm	10-22mm	15-33mm	16-35mm	20-44mm
11-18mm	11-18mm	16-27mm	18-29mm	22-36mm
12-24mm	12-24mm	18-36mm	19-38mm	24-48mm
16-35mm	16-35mm	24-53mm	26-56mm	32-70mm
17-35mm	17-35mm	25-53mm	27-56mm	34-70mm
17-40mm	17-40mm	25-60mm	27-64mm	34-80mm
18-55mm	18-55mm	27-82mm	29-88mm	36-110mm
18-200mm	18-200mm	27-300mm	29-320mm	36-400mm
18-270mm	18-270mm	27-405mm	29-432mm	36-540mm
24-105mm	24-105mm	36-157mm	38-168mm	48-210mm
28-70mm	28-70mm	42-105mm	45-112mm	56-140mm
28-300mm	28-300mm	42-450mm	45-480mm	56-600mm
55-200mm	55-200mm	82-300mm	88-320mm	110-400mm
70-300mm	70-300mm	105-450mm	112-480mm	140-600mm
100-400mm	100-400mm	150-600mm	160-600mm	200-800mm
150-600mm	150-600mm	225-900mm	240-960mm	300-1200mm



Camera brand/models	Multiplication factor			
Canon				
All EOS models (except below)	1.6x			
EOS-1D series	1.3x			
EOS 5D, EOS-1DS & EOS-1D X series	1x			
Fujifilm				
X-series APS-C mirrorless models	1.5x			
Nikon				
All FX-format D-series DSLRs	1x			
All DX-format D-series DSLRs	1.5x			
All CX-format 1-series mirrorless	2.7x			
Olympus & Panasonic				
All mirrorless models	2x			
Pentax				
All K-series models (except below)	1.5x			
K-1	1x			
Sony				
Alpha/NEX full-frame	1x			
Alpha/NEXAPS-C	1.5x			

LENS ATTRIBUTES AND CHARACTERISTICS

EACH TYPE OF LENS CAPTURES THE SCENE DIFFERENTLY. KNOWING HOW THEY WORK WILL HELP IMPROVE YOUR PHOTOS

ITH SO MANY different types of lenses available, it's easy to wonder how differently each records the subject. From the amount of distortion through to how perspective is exaggerated or conversely compressed, each lens has its virtues. Let's take a look at some of the key characteristics of different types of lenses to give you a better idea of how the same scene can appear when you switch from one focal length to another.

COMMON CHARACTERISTICS

- **CONVERGING VERTICALS:** Photograph buildings from the ground and they appear to lean backwards, with the verticals converging towards each other. Avoid this by shooting from a higher vantage point, using a specialist tilt-shift lens, or correcting the issue in editing software.
- **EXAGGERATED FACIAL FEATURES:** Get close to a subject using a very wide-angle lens and faces distort and features are exaggerated. Try it to capture wacky portraits of family, friends and pets!
- exaggerate perspective, telephoto lenses have the opposite effect and compress perspective. When shooting distant subjects such as rolling hills or buildings, using a telephoto lens makes them appear closer to each other than they really are known as stacking or perspective compression.



ANGLE-OF-VIEW

When we talk about wide-angles including a lot of the scene and telephotos isolating parts of the view in front of you, we usually talk about focal length, as it's a universal term that's easy to understand. What we're touching on when we do this is the angle-of-view that a lens covers.

The angle-of-view is usually stated in degrees and relates directly to how much of the scene the lens captures. The 50mm lens (or an approx 32mm lens on APS-C), with its 40° angle-of-view, is generally considered the closest to the human eye. To show the difference that focal length has on an image and scene, the series of images here were all taken from the exact same location using a full-frame DSLR, and give a clear idea of the angle-of-views at various focal lengths. Notice not only how much the angle-of-view changes, but also how the perspective alters too. Try it yourself!















PERSPECTIVE

Your choice of lens has a major effect on perspective and this, in turn, affects how your subject and background relate. So when you've the chance to shoot a subject against a backdrop, you should think about how they best work together. If you use a wide-angle lens, you can strengthen perspective and add depth, as well as include more of the surroundings. Use a longer focal length and you tighten perspective, compressing the scene so it has less perceived depth.

It's easy to see this for yourself by taking a series of images at a variety of focal lengths of a static subject set within a scene. Shoot from wide to telephoto, moving backwards every time you use a longer focal to keep the subject roughly the same size in the frame. You'll notice a dramatic change in perspective at different focal lengths when you review the images. Our series here shows the effect of shooting from 8mm through to 400mm.





















COMMON PROBLEMS ASSOCIATED WITH OPTICS

- **DISTORTION:** Straight lines that appear curved in your images have been subject to distortion. This is most prominent in wide-angles but can occur with telephotos too. Barrel distortion makes lines bow outwards, while pincushion distortion has the opposite effect. Aspherical lens elements help reduce distortion, while editing software can also minimise it.
- **FLARE:** If parts of your image have streaks of light or hotspots, then it's due to flare. This problem occurs when stray light from the sun bounces around the lens optics, reducing contrast and overall image quality. Using a lens hood, shielding the lens with your hand or shifting your shooting position are the easiest ways of avoiding the problem.
- **CHROMATIC ABERRATION:** Ever noticed slight bands of colour along sharp edges on subjects like buildings or branches? This fringing is due to different wavelengths of light focusing at various points. Premium optics such as apochromatic elements help minimise the problem. Editing software such as Lightroom can also be used to fix it.



WIDE-ANGLE LENSES

ARE YOU LOOKING TO FIT AS MUCH OF THE SCENE IN FRONT OF YOU AS POSSIBLE INTO THE IMAGE? THEN WHAT YOU NEED IS TO USE A WIDE-ANGLE OR ULTRA WIDE-ANGLE LENS

HEN IT COMES to including vast vistas, or shooting in confined spaces like an interior, no optic can match the field-of-view that a wide-angle lens captures. If you don't currently own one, then it's definitely one to add to the shortlist.

Wide-angles come in a number of forms (see opposite) and have several common characteristics. The smaller the focal length, the wider its field-of-view and the more of the scene you can include. Along with its wide field-of-view, another key characteristic of wide-angles is how they stretch perspective, making areas close to the camera appear wider than they really are and making distant subjects appear smaller and further away. It's no surprise then that this type of lens is coveted amongst landscape photographers, who can use it to help make the most of foreground interest, add depth to the scene and use compositional factors like lead-in lines to guide the viewer through the frame.

One other factor makes them prized optics – their perceived extensive depth-offield. Even at fairly wide apertures, these lenses produce a deep area of sharpness and closed down to f/13 or f/16, it's possible to have the entire scene appear sharp.

MYFAVOURITELENS...



Mark Bauer Landscapes

"If I'm going out shooting landscapes, the first lens I pack is a wide-angle zoom. Not only do these lenses allow you to capture wide, sweeping vistas, but they also enable you to get in close to foreground interest to create dramatic perspectives. These days, I seem to be shooting more and more with my Fujifilm X-Pro 2. With its traditional controls, it's fun to shoot with and more importantly, it delivers excellent image quality. Most of the time, it's paired with the Fujinon XF 10-24mm f/4. This is equivalent to 15-36mm on a full-frame camera - perfect for landscapes. I love the feel and handling of this lens – it has an old-fashioned aperture ring, which is something I've missed on modern lenses. But more importantly, its optical quality is superb – very sharp throughout the range, with excellent contrast and colour. It's without doubt my current favourite wide-angle.



OURFAVOURITEWIDE-ANGLELENSES



SAMYANG 14MM F/2.8 IF UMC £300

Designed for use with fullframe and APS-C sensors, this fast, manual focus ultra-wide prime delivers great quality thanks to its use of premium glass. It is available in Canon and Nikon fittings at a very reasonable price.



SIGMA 10-20MM F/3.5 EX DC HSM £330

Designed for use with APS-C sensors, this Sigma is one of the best budget ultra-wide zooms available, with a constant f/3.5 maximum aperture and excellent optics. It comes in Canon, Nikon and Sony fittings.



TOKINA 11-16MM

F/2.8 AT-X PRO DX II £480
Designed for APS-C Canon and Nikon DSLRs, this is a premium ultra-wide zoom at an attractive price. Its focal range is shorter than most, but the fast maximum aperture and premium optics make it a great lens to use.



SIGMA 12-24MM F/4.5-5.6 DG HSM II **£530**

If you use a full-frame Canon or Nikon and want a reasonably affordable and far-reaching ultra-wide zoom, then this is a fantastic option. You'll be amazed at the dramatic effects shooting at the widest focal length gives.

TYPES OF WIDE-ANGLE LENS

F YOU'RE LOOKING for a wide-angle lens, there are two types designed for most popular forms of photography and one with more specialist applications.

ULTRAWIDE-ANGLE ZOOM

This is the most popular type of wide-angle lens with amateurs and enthusiasts, while premium versions are increasingly popular with professionals. Covering an extensive range of wide-angle focal lengths, the ultra-wide zoom is an incredibly versatile lens – shoot at either end of the zoom range and you'll see how dramatic its range is. There are two main types of ultra-wide zoom, the more moderate models covering around 16-35mm are designed for full-frame cameras, as on APS-C it's equivalent to a 24-53mm. APS-C users will want to check out focal lengths like the 10-22mm, which gives an effective focal range of around 15-33mm.

PRIMEWIDE-ANGLELENS

With ultra wide-angle zooms being so versatile, you may be wondering why you should consider a prime lens? Well, there are several reasons why. They're smaller and lighter, making them good options for travel, while offering a faster maximum aperture that gives them an advantage when shooting in low light. Their simpler optical design means they're sharper too, so if optical quality is paramount, they are the best choice. If you use full-frame, a 20mm or 24mm should be suitable, or a 14mm if you need extreme coverage. APS-C users could consider a 14mm or 20mm, or a 24mm for a more moderate effect and general use.

FISHEYE LENS

If you need the widest possible coverage, then you'll want a fisheye. There are two types of these specialised wide-angle lenses – circular and full-frame fisheyes. Circular fisheyes are designed for full-frame and give a 180° angle-of-view, capturing a circular image with the rest of the frame pure black. A full-frame fisheye has a similar angle-of-view but fills the frame for incredibly wide vistas. If you fancy trying a fisheye, we'd suggest hiring one rather than buying it, as you'll find you rarely use it.



WHATTO SHOOT WITH WIDE-ANGLES..



• LANDSCAPES: If you enjoy shooting scenics then you need a good wide-angle lens. We'd suggest an ultra-wide as your first option as it offers so many useful focal lengths to try out. Once you've gained experience, if you may find you use a particular focal length more than others, you may want to invest in a prime.



• ARCHITECTURE: Whether you're shooting the exterior of buildings or working within the confines of an interior, a wide-angle lens is a good option. An ultra wide-angle zoom is your best option as you'll find the more moderate focal lengths useful when shooting outside, while indoors, the wider the better!



SPECIALIST PORTRAITS: A wide-angle is ideal when photographing a person in their home or working setting to capture an environmental portrait. You'll also find the way these lenses alter perspective makes them worth using close to your subject to capture very unusual portraits with exaggerated facial features.

TELEPHOTO LENSES

ATELEPHOTO LENS COMES INTO ITS OWN WHEN YOU'RE TRYING TO MAKE A DISTANT SUBJECT APPEAR AS LARGE AS POSSIBLE IN THE FRAME

NY FOCAL LENGTH of around 50mm and longer is usually classed as a telephoto, although many people tend to associate the term with big zoom lenses that can see off into the distance, rather than your 50mm primes. Telephotos are best known for filling the frame with distant subjects like animals or sporting action, but they have a wider use too, and are used in everything from portraits to architecture to even landscapes, making them one of the most versatile and popular types of lenses.

How much a telephoto magnifies the subject is directly related to its focal length. A 200mm will be twice as powerful than a 100mm, and a 400mm is four times as strong. While the primary use of telephotos is to make a distant subject bigger in the frame, its narrow field-of-view means it can be used to isolate parts of a scene, such as a particular building in an urban landscape.

The telephoto is a favourite lens with portrait photographers not just because they allow for tight compositions, but they tend to be more flattering than wide-angles, and at wider apertures they produce a very shallow depth-of-field, which is used to create captivating results. The longer the focal length, the shallower depth-of-field appears at the same aperture, so a 300mm lens at f/5.6 will offer less apparent depth-of-field than a 150mm at f/5.6.

You need to use a telephoto lens with care to ensure sharp results – poor focusing and



Deer hunter: Long telephoto lenses are popular with wildlife photographers when stalking timid or flighty subjects.

camera shake can be issues. The latter can be minimised by using the lens's stabilisation system if it has one (many do), and ensuring the shutter speed is reciprocal of the focal length (if using a lens at 200mm, the shutter speed needs to be at least 1/200sec). As for focusing, the key is to focus on the key area in the frame (for example, the subject's eyes) and ensure neither you nor the subject moves before firing the shutter.

There are four main types of telephoto lens and these are covered on the page opposite, along with some of the types of subject that they are best suited for.

BUDGET BOOST

If you have a decent telephoto lens or zoom but wish at times that you could extend its reach further, then a cost-effective option is a teleconverter. This attachment fits between your camera and the rear element of your lens, and boosts the focal length by 1.4x or 2x. So, on a 70-200mm, the focal length effectively becomes a 98-280mm or 140-400mm, respectively. There are some drawbacks – you lose a stop or two of light depending on whether you use a 1.4x or 2x version, and with slower lenses you may lose autofocus. Image quality reduces, although more expensive teleconverters minimise this.

MY FAVOURITE LENS..



Ben Hall Wildlife

"The Canon EF 100-400mm f/4.5-5.6L IS USM was the first 'L'

series lens that I bought, in 2002 just after I turned professional. It's my most used lens and many of my best-selling images have been taken with it. It's relatively lightweight considering its versatile range and, while its AF isn't the quickest, it's still my preferred workhorse. I believe this lens helped to shape the way I take images, allowing me to frame subjects within the environment, and in doing so produce more compelling images that help tell a story. I've always been a firm believer in travelling light and it's the perfect lens for packing for a day's wildlife photography. It's much easier to cover ground with just one camera and one lens, and is still one of my preferred choices today, especially when stalking a weary subject!There is a MkII available but while the original continues to excel, I'm happy to keep using it.'

OUR FAVOURITE TELEPHOTOS



FIGMA 70-200MM F/2.8EX DG OS HSM E730
The latest generation of Sigma's fast telezoom has it all – premium optics, excellent Optical Stabilisation, fast HyperSonic Motor and a very attractive price tag. It's great alternative to marque lenses.



TAMRON 70-300MM F/4-5.6 SP DIVC £300 This popular zoom lens boasts a versatile range of focal lengths. Image quality is high thanks to the use of premium glass optics and it boasts fast Ultrasonic Silent Drive autofocus. A great generalpurpose telezoom.



SIGMA 50-500MM F/4.5-6.3 OS HSM £850 The latest version of Sigma's popular zoom adds an Optical Stabiliser to the fast, quiet Hypersonic Motor focus and impressive premium optics. Compatible with Sigma's excellent 1.4x and 2x converters.



TAMRON 150-600MM F/4-6.3 DIVC £830 This is a popular choice for wildlife, due to its excellent range of telephoto focal lengths. Used on an APS-C DSLR, it offers a staggering range of around 225-900mm! It boasts great optics plus an excellent stabilisation facility.

TYPES OF TELEPHOTO LENS

HERE ARE FOUR main types of telephoto lens, each with their own pros and cons, so be sure you opt for the type that best suits your photography and subject.

SHORT PRIME TELEPHOTO

There are a number of prime lenses with a short telephoto range and fast maximum aperture that, while specialised, are more useful than you might first think. The 50mm f/1.8 or f/1.4 is a small and light lens that's a good general purpose prime, suitable for street, travel and portrait photography. The $85 \text{mm} \, f/1.8 \, \text{or} \, f/1.4$ and $135 \text{mm} \, f/2 \, \text{or} \, f/2.8$ lens are both designed specifically for portraits and deliver excellent sharpness.

© LONG PRIME TELEPHOTO

Amongst the biggest, heaviest and most expensive lenses are the long prime telephoto and super-telephoto lenses, such as the 300mm f/2.8 and 500mm f/4. Designed with the sports and wildlife professional (and wealthy enthusiast) in mind, they boast very fast apertures and extreme pulling power. To achieve this tricky combination requires big, heavy and advanced pieces of glass that cost a small fortune. Best start saving now!

GENERAL-PURPOSE TELEZOOM

This is the most popular type of telezoom and is available in budget and premium versions. For budget zooms, APS-C users tend to go for the 50-200mm while for full-frame it's the 70-300mm. Those looking for premium optics have fast f/2.8 zooms on offer. The 70-200mm f/2.8 is the most popular type, can be used with both APS-C and full-frame, and delivers quality that's good enough for the pros.

SUPER-TELEPHOTO ZOOM

When you want to combine pulling power with flexibility, this is the zoom you need. Covering an extensive range of focal lengths and using high quality optics, it's a popular choice with wildlife photographers in particular. The more popular focal lengths for these zooms are the 80-400mm and 150-600mm. While they can be used handheld, these lenses are heavy so are usually best used on a tripod or monopod.



WHATTO SHOOT WITH TELEPHOTOS...



● PORTRAITS: The flattering perspective of a telephoto makes it the number one choice of lens for dedicated portrait photographers. Longer focal lengths are suitable, but many enthusiasts and pros prefer shorter, faster telephotos such as the 85mm f/1.4 and the 135mm f/2, as they produce beautiful bokeh.



WILDLIFE: The pulling power of a powerful telephoto lens really comes into its own when you're stalking animals and birds and need to keep your distance. While a 70-300mm may be suitable, if you're really serious about wildlife photography, you should consider the likes of an 80-400mm or 150-600mm zoom.



• SPORTS: Sometimes it's just not possible to get close to the action, so the only way to fill the frame with the subject is to use a telephoto zoom. Depending on the sport you're covering, you may be able to use a 70-200mm or similar, but if not consider a more powerful lens that reaches 300mm, 400mm or even 600mm.

OTHER POPULAR LENS TYPES

WE'VE COVERED A RANGE OF POPULAR LENS TYPES BUTTHERE ARE OTHER USEFUL AND MORE UNUSUAL OPTIONS TOO



MACRO LENS

If you're keen on shooting close-ups and want to progress your skills, then you can't do better than to invest in a dedicated macro lens. These allow you to fill the frame with miniature subjects and capture them at either life-size (1:1) or half-lifesize (1:2). As they're designed for macro work, you can focus at very short distances and the image quality is fantastic. There are three main focal lengths of macro lens, the 60mm short telephoto, 90mm/100mm medium telephoto and longer 150mm/180mm/200mm telephoto macros. All can be used for general photography too, and thanks to their fast maximum aperture, they double up as excellent portrait lenses. If you're serious about close-up photography, a macro lens is well worth the investment.



TAMRON SP 90MM F/2.8 DI VC USD £400 Easily one of the best value macro lenses available, the Tamron boasts nice handling, Vibration Compensation and top quality optics. Definitely one to consider.



CANON EF 100MM F/2.8L MACRO IS USM <u>E740</u> A stunning lens for Canon users, with beautiful handling, weathersealed barrel and excellent image stabilisation. Its best feature is the incredibly sharp optics.



F/2.8EX DG OS HSM APO £1,300
This large, heavy lens is built to last and produces incredibly sharp results thanks to excellent optics and useful Optical Stabilisation. Sure it's pricey, but it's well worth it.

MY FAVOURITE LENS...



Ross Hoddinott Nature & landscapes

"I shoot a wide range of subjects, but for macro, my favourite lens is

the Nikkor 200mm f/4 Micro. This is an old design – it's built like a tank and weighty but it is optically brilliant. Its telephoto focal length allows me to work further away from my subject – perfect for when I'm shooting flighty, timid wildlife, like insects. Also, its narrower angle-of-view helps me to capture clean, diffused backdrops. However, due to its size and weight, it's not a great lens for handheld use. For handheld close-ups, I favour the Nikkor 105mm f/2.8, which also boasts image stabilisation – a useful additional function. If you intend on shooting wildlife, I'd definitely recommend opting for a macro upwards of 100mm, otherwise, a shorter, lightweight macro lens – in the region of 60-90mm – will suffice."

STANDARD LENS

Amongst the smallest, lightest and most affordable lenses, the 'standard' 50mm f/1.8 (or 35mm for APS-C users) is an optic every photographer should own. Their size and weight are ideal for travel, while the focal length makes it perfect for general use, such as candids, portraits and documentary photography. As well as the popular f/1.8 lenses, there are faster f/1.4 versions available, but we'd suggest you save your money to start with and stick with the budget option.



CANON EF 50MM F/1.8 STM £100 This recent update of the classic 50mm f/1 8 II lens adds fast STM focus to the original design. Weighing only 160g, this prime is capable of excellent results.



NIKON AF-S 35MM F/1.8G DX £175 Designed for APS-C DSLRs, this lens effectively replicates a classic '50mm'. Very compact and lightweight, it produces very sharp results with beautiful bokeh.



FUJIFILM XF35MM F/2 RWR £370 Designed for Fuji's X-series CSCs, this offers an effective focal length of 53mm. The compact barrel is weather-resistant, while the optics deliver first class results.

novel, lightweight

LENSBABY:These

lenses use a flexible barrel that allows you to selectively focus on the subject and

capture creative results with relative ease. There's a wide range available, all delivering good quality results, ranging from the budget Spark (£75) to the more sophisticated Edge (£230) and Composer Pro II (£400).

OTHER LENS TYPES

PANCAKE LENS: Designed to offer a very compact and lightweight lens for travel, the pancake lens uses a simple optical

design to minimise size, yet delivers very good quality results. Most pancake lenses cover a wide-angle or short telephoto focal length. Examples include Canon's (£170) EF 40mm f/2.8 and (£130) EF-S 24mm f/2.8, (£230) Olympus 17mm f/2.8 and (£200) Sony E20mm f/2.8.

TOY CAMERALENS:

Fancy joining the cult 'toy camera' brigade and shooting blurry, low-sharpness results made

famous by Holga? If you are, you'll find a variety of cheap and cheerful options for your camera. Check Amazon and eBay for Holga and Diana lenses for as little as £10.



TILT/SHIFT LENSES:

While a Lensbaby offers an easy and affordable way to alter perspective, these specialist lenses sit at the

opposite end of the price and difficulty scale. They alter the plane of focus and control the direction and extent of depth-of-field. Used extensively by pro architectural photographers, they also allow for the correction of converging verticals.



MIRROR LENSES:

Using a clever 'mirror' design, these lenses give super-telephoto power in a relatively compact,

lightweight and affordable package. Most give focal lengths of 500mm or 600mm. They have a fixed aperture of f/8, are manual focus and produce adequate quality results. Check out models by Samyang and Danubia.

STANDARD ZOOMS

The standard 'kit' zoom supplied with your camera covers a useful range and, while its optics deliver reasonable image quality, it's worth updating once you can afford to. We're not talking about investing in the expensive f/2.8 models aimed at the pros, but rather opting for a mid-range standard zoom. These usually offer a range of benefits, including improved build quality and handling, a wider range, faster maximum aperture and better optical performance.



SIGMA17-70MM F/2.8-4 DC OS HSM £320 For APS-C Canon and Nikon DSLRs, this well-priced zoom offers a fast maximum aperture, optical stabilisation and excellent AF. Image quality is high.



CANON EF 24-70MM F/4LISUSM £700 About as good a standard zoom as you'll find before you reach the premium f/2.8 versions, this Canon offers excellent image quality, fast AF and superb handling.



NIKON AF-S 24-85MM F/3.5-4.5 GVR £430

This is a great standard zoom for all Nikon DSLRs. It covers a decent zoom range and features excellent autofocus, Vibration Reduction and very good quality optics.

SUPERZOOM

In terms of versatility, there is no other lens that comes close to matching the focal range on offer from a superzoom. With focal lengths covering everything from wide-angle through to telephoto, you could in theory leave a superzoom permanently attached to your camera and never need to remove it. Early versions were slow, bulky and not great quality, but the latest offerings are more compact, boast faster AF, image stabilisation and much better quality optics. For full-frame users there are a number of 28-300mm zooms, which boast a very useful 10x zoom range. APS-C users have 18-200mm zooms that give a similar effective focal range, along with more powerful options such as the 15x 18-270mm and the 18.8x 16-300mm 'megazoom'. In terms of versatility, there is nothing to touch them!



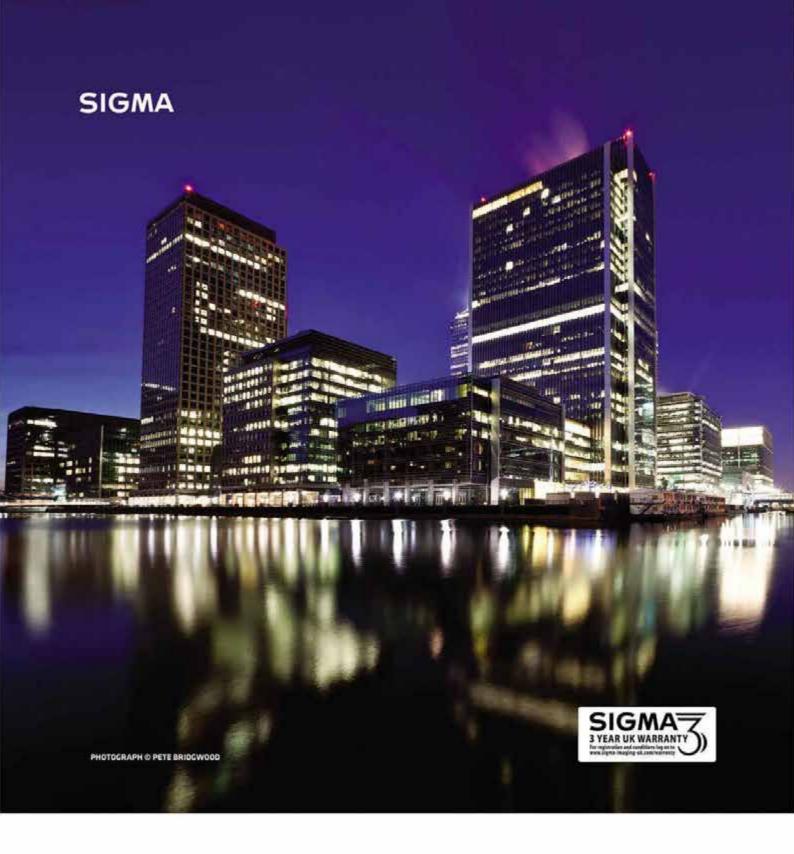
SIGMA18-200MM F/3.5-6.3 DC OS HSM £250 If you're on a budget, you won't find better than this small, versatile zoom. Boasting a stabiliser, Hypersonic focusing and a macro facility, it's packed with features.



TAMRON 16-300MM F/3.5-6.3 DI II VC PZD **£430** It's hard to believe such a compact lens can cover such a big range. Not only does this have a 18.8x zoom range, it also has a useful macro mode. A very neat package



TAMRON 28-300MM F/3.5-6.3 DIVC PZD **£600** With fast Piezo autofocus, splash-proof design, Vibration Compensation and premium optics, this Tamron is an excellent choice for full-frame users.





10-20^{mm} F3.5 EX DC HSM

For Sigma. Canon, Nikon, Sony and Pentax Supplied with fitted padded case and petal type lens hood. Compatible with APS-C SLRs only. This super-wide angle zoom lens for digital SLR comeros has a maximum aperture of F3.5 throughout the entire zoom range and its super-wide angle enables breathtaking perspective and one-of-a-kind shots.

ELD (Extraordinary Low Dispersion) glass, SLD (Special Low Dispersion) glass and aspherical lenses provide excellent correction of all types of aberrations. The Super Multi-Layer Coating reduces flare and ghosting and the incorporation of HSM (Hyper-Sonic Motor) ensures a quiet and high-speed auto focus.

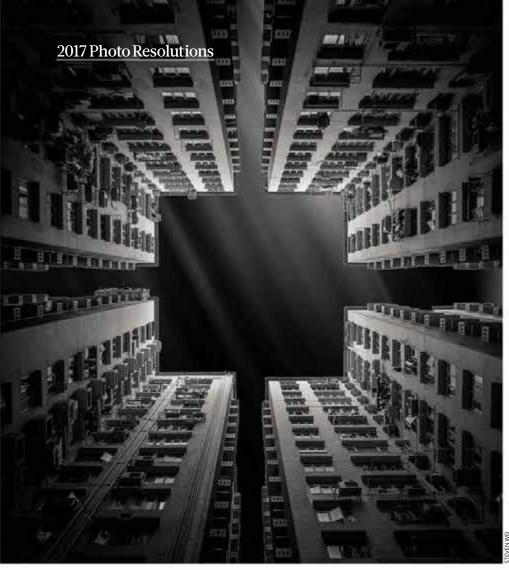
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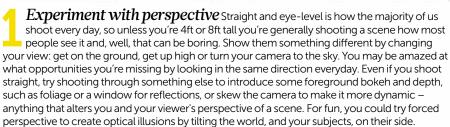
It's time to take your best ever pictures...

HOW SIZEABLE IS YOUR RESOLUTION FOR 2017? WE'RE NOT TALKING ABOUT PIXELS, ALBEIT A NEW CAMERA MIGHT BE ON THE LIST, BUT YOUR LOFTY AMBITIONS FOR NEW ACHIEVEMENTS AND SKILLS TO MASTER. RATHER THAN SIMPLY SAYING 'I WANT TO SHOOT MORE', WE'RE OFFERING YOU 12 WAYS TO HELP YOU PROGRESS, CHALLENGE YOURSELF AND GENERALLY ASPIRE TO CREATE GREAT IMAGES. YOU COULD DO ONE A YEAR OR ONE A MONTH, JUST MAKE IT YOUR MISSION TO DO AT LEAST ONE!

IMAGE: STOCKPHOTO MANIA /SHI ITTERSTOCK









ADAM BURTON

Master panoramics Take in a wider view and make it your goal to master capturing panoramics. It's a photographic technique that relies heavily on in-camera technique, but done well can allow you to capture stunningly detailed large-format images. While you can shoot panoramics handheld, we'd advocate using a tripod where possible for extra accuracy. Line up your scene, work out the right exposure for the image (a quick test shot in aperture-priority mode will help) and switch over to manual exposure mode. Take your first shot, and then pan your camera so that the next frame overlaps between 30-50% with the first and take your second shot. Keep going until you've captured the full scene. The frames can then be combined using Photoshop or Lightroom's Photomerge feature, or dedicated software such as PTGui. Once you've got to grips with the technique, try out mini-planets, 360° panoramics and even 360° video using specialist cameras such as Nikon's KeyMission 360 action camera.







Try new locations

How far do you go in search of a photograph? Although your doorstep shouldn't be dismissed, not venturing further than your locality can leave your portfolio looking stale. Scouting new locations isn't only for landscape photographers: seek out spots with interesting backdrops and lighting for portraits, or visit an area known to attract a certain type of wildlife you've wanted to see. It's worth going the extra mile for a new outlook. If you're an outdoor photographer, then it's time to start working through that 'bucket list' of must-shoot locations at home and abroad. Take that photo holiday, go hiking in the Isle of Skye for an epic view or try somewhere you've never even considered – you might be surprised! Each month in this very magazine we provide you with a Location Guide that details the top photo hotspots, viewpoints, trails and even where to eat and sleep, so make sure you look through your back issues to find one that gives you the travel bug. Whether it's a UK city, a tourist hotspot like Santorini or one of Britain's amazing rural locations you're after, there will be something for everyone.



Shoot environmental portraits Look around your locality and we'll bet there are all kinds of interesting characters that you come into contact with on a daily basis. Capture a portrait of your local area by shooting a series of environmental portraits of the people that live, work and play there. Environmental portraits are those that, you guessed it, depict the person as part of their setting. For example you might photograph the local butcher standing behind the counter in his or her shop, or a farmer in their field or a farmyard. Look for interesting characters and environments that have a story or aesthetic to them - you'll often find they've got interesting stories to tell that make for great captions. Environmental portraits can be posed or natural, but remember to consider what you include, and exclude from the composition the background should tell the story of the person, but not distract. In terms of focal lengths, a 35mm lens (approx. 23mm APS-C equivalent) is the go-to option for environmental portraits.



Shoot wide open Wide apertures demand skill; the wider the aperture, the more precise your focusing needs to be. You'll want a fast lens with a maximum aperture of at least f/2.8 to do this challenge justice, but it doesn't need to cost the earth. A 'nifty fifty' (like the NIKKOR 50mm f/1.8D) can be had for around £100. Working at wide apertures, you have to consider the composition of your focal point carefully, as it'll be the only part of the image that's sharp. Use aperture-priority mode and manually select a single focus point, rather than letting the camera do it for you. You'll quickly understand focal plane and how it affects depth-of-field. On the flip side, you get gorgeous images with creamy backgrounds, bokeh and stunning softness. It's not just for still-lifes and portraits, landscape photographers should give it a go too, as it will force you to look at scenes in a whole new way.





Master monochrome It might only be two tones, but mastering black & white photography can be a lifelong endeavour that you might want to start now. You'll be mistaken in believing it's easier than working with colour. You need to train yourself to see the world in black, white & grey. While differences in colour play a part in creating a strong monochrome picture, learning the effect of luminosity is much more important. You could have a vibrant multi-coloured scene that, when converted, looks flat, grey and lifeless; it's the colour's luminosity that's key and to know that is a skill learned by doing. Even though modern masters have the luxury and flexibility of converting in post-production, there's so much choice it's easy to overcook it and it has arguably become as much of an art form as the darkroom used to be. Photoshop and Lightroom have plenty of functions for converting, but programs such as the free Nik Software's Silver Efex Pro offer darkroom-inspired controls and effects, even film types, which can dramatically change the look of a scene. There's plenty to learn and plenty to master, so if your black & whites are left wanting consider immersing yourself in a monochrome world.





Plan for family moments As the years swing by we're left wondering where the time goes, amazed by how quickly our family grow and the moments we lose to the past. In our fast-paced lives, it's all too easy to snap a quick shot on a smartphone or to set the camera to Auto during a special occasion, but this year will be different. Make it a new tradition to create portraits each Mother's and Father's Day, to capture a picture with your partner on Valentine's Day or candids at Christmas. Birthdays are an obvious choice, but rather than grabbing the obligatory candle blow, you could plan a shoot to reflect their age and stage of life. You're only limited by your creativity. Of course, it doesn't have to be a ritual: you could plan a picnic in the right location for the right time of day or simply set some time aside with your family capturing their interactions; don't forget to include yourself in some of the shots too, though. Be more proactive, and less reactive, with your photography and you'll capture some stunning memories.





Get creative with light There's a saying amongst photographers – light is light. What does that mean? Basically, any light can be used to create images, you just need to know how to use it to your advantage. Smartphones and tablets can become softboxes, torches are focused spotlights, and candlelight can add a warm glow to a portrait. If you've got young children in the family, then try photographing them illuminated only by the glow of a tablet computer – they'll be so mesmerised they won't notice anyway! Remember, if you're shooting in low light then don't be afraid to open up your aperture and increase the ISO. Modern cameras like Nikon's D5500 record fantastic results at high ISOs. Think outside the box when bouncing light too – any reflective surface can add a touch of fill, but avoid surfaces with a strong colour, which add a cast to images that is tricky to remove.



Build a home studio It's every portrait photographer's dream isn't it? Your own dedicated studio facility kitted out with all the lighting equipment and props you'll ever need, and more. For most of us it'll have to remain a dream, however you don't actually need all of that to create compelling portraits in your own home. All you need is enough space to set up a paper backdrop, lights (flashguns like Nikon's Speedlight SB-910 will do), a couple of light stands, and modifiers. There are endless choices when it comes to background colour, but a mid-grey seamless is a wise choice. It can be underexposed to black, or lit up to white, as well as turned any colour you wish with flash gels. Light modifiers such as softboxes are cheap and versatile, and work with flashguns or studioflash. Add some tasteful props such as an old wooden chair, crates or a ladder. Turn to page 43 for more ideas on how to create a versatile home studio on a budget.





Spend a day with a pro How do they do that?! A question we've all pondered as we muse over the social media of our favoured photographers, enamoured by their creations inspiring us to shoot better. Give yourself a jump-start by tackling a training course or two. There are dozens of providers led by professional photographers waiting to give you a hand, whether you're wanting to get to grips with the basics, master lighting techniques or advance into new areas of photography, check out our Classified section for suggestions. Nikon School also offers a wide range of courses from film noir to macro, and many of our contributing professionals such as Ross Hoddinott, Lee Frost and Adam Burton supply group and one-to-one opportunities. So if you want to grow; time to learn from a pro!

Celebrate 2017 with Nikon

New year, new Nikon kit!

If you didn't quite get your Christmas list's load of photo goodies, you might be on the look out for some New Year's bargains to improve your arsenal. If a camera upgrade is on the cards, carefully consider what you want. Do you need exceptional autofocus performance and a fast frame rate like the D500 and D7200, or are you looking for an extra 'smart' DSLR built for sharing, like the D3400? You might even think it's time to switch from DX to FX. Then again, if it's a jump in image quality you're looking for focusing on upgrading your glass might be the way to go. Whether it's getting a faster version of your favourite focal length, like upgrading to the AF-S 50mm f/1.4G from the f/1.8G optic, or opting for an all-new focal range to try your hand at close-up or landscape photography, a new piece of glass can reinvigorate your photography. If, however, your budget won't stretch to the bells and whistles, perhaps investing in a Speedlight or two is a smart move, such as the SB-5000 or SB-500, to make the most of Nikon's easy-to-use Creative Lighting System. Just by introducing a new piece of kit to your bag of tricks, you'll be inspired and empowered to try new approaches.





The Big Interview

CRESTOF

SHOT WHILST SUBMERGED IN THE NEAR-FREEZING WATERS OF LAKE ERIE, DAVE SANDFORD'S THE GREAT LAKES SERIES HAS BEEN A HUGE SUCCESS. JORDAN BUTTERS CHATS TO HIM ABOUT THE STORY BEHIND THESE POWERFUL IMAGES...



Dave Sandford

AKE ERIE, IN CANADA'S Great Lakes region, is a haunting place riddled with folklore and legend. There have been more shipwrecks on Lake Erie than any of the Great Lakes - hundreds and thousands of people have lost their lives to the waters. There are tales of hauntings on or near the lake, and legends of a Lake Erie monster. There's the storm hag, which is said to reveal herself before she takes ships down. Perhaps that's why these images resonate with people you can see shapes and figures in the frozen moments of crashing water - it's almost like souls are trying to escape the water and the lake is pulling them back in."

Professional sports and nature photographer Dave Sandford sets the scene well, and provides the perfect prologue to his sinister and foreboding 'Great Lakes' series. Ontario-based Sandford is possibly best known for his 20 years of work photographing the National Hockey League, but he's also worked with the NBA, Major League Baseball, the Winter Olympics and the Super Bowl too. Alongside his talent in photographing sports, he's been fascinated by the natural world for as long as he can recall: "When I was younger, I was torn between sports and wildlife photography, but I decided to pursue sports," he explains. "I figured that if I can make it as a sports photographer, I can shoot nature on the side and maybe eventually build a career from that too. If I took the other route I can't exactly show up at the Olympics as a nature photographer! Now I'm in a fortunate position that, as busy as I am with sports, I have a lot of free time, which allows me to travel to different places and take on different assignments on the nature side of things."

Having grown up surrounded by the Great Lakes, Dave feels at home in, on and around the water and was compelled to explore the possibilities of taking his camera into the depths. "I have an admiration for wave photographers, such as Clark Little, and for five or six years I wanted to, for the lack of a better term, 'dive in' to that aspect of photography. My sister lives in Australia and I was fortunate enough to be connected with ocean photographer Warren Keelan. Warren is my mentor, and accelerated my process of shooting in the water by years, just from learning from him, and going out and shooting with him. I'm forever grateful to him for taking me under his wing."

A world away from the rolling crystal waves of Australia and back home on the Great Lakes, Dave had a vision to showcase the power of the lakes, and in particular Lake Erie. "The lakes look as big as oceans when you're standing on shore. Over the years I've seen their many faces – from placid, calm waters to super-rough storms," he tells me. "People who haven't visited the Great Lakes can't believe that we get waves like this on an inland lake. Even people that live here in the region have no idea this phenomenon occurs – they often only go to the lake in 25–30°C weather and under sunny, blue skies!"

Previous page) 'Eerie Erie'. **1)** 'G.W. JACKSON – Port Stanley'. **2)** 'Bane Of The Great Lakes'. **3)** 'Brain Wave'. **4)** 'Neptune'.













 ${\it January\,2017\,\, \textbf{Digital\,SLR\,Photography\,97}}$







The ideal conditions for Dave's craft occur from October to December when the cold, Arctic air comes down and mixes with the departing, warmer summer air, creating a storm that churns the lake into a frenzy. The waves are wind-generated, and the conditions and wind direction have to be just right. "With wind speeds of up to 100kph, the waves are usually in the neighbourhood of ten feet high, and on some days upwards of 15ft," he explains. "The waves are pushed across the lake towards the town of Port Stanley. They roll into the shallow area and rebound off a large pier. The rebounded water then moves back out across the shallow area, picking up sand and silt from the bottom, which is what gives the water a dark, gloomy look. This outgoing surge collides with incoming waves - the water has nowhere to go but up, creating these powerful, momentary displays of natural force."

To capture these moments from the right angle demands Dave to be in the water himself, most of the time. He often finds he's the only person there too, and certainly the only one enjoying the lake on the kinds of

days he needs for these majestic waves. Maybe enjoying isn't the right word? "The water's cold!" He remarks. "It's typically seven to eight degrees Celsius and just above freezing later in season. The air temperature hovers around the freezing point, or if I'm lucky I might get air temperatures in low teens. The conditions don't allow you to remain in the water for very long, even in cold water gear. As comfortable and confident as I am, you can't be cocky - the water is always going to win. I wear a life-jacket, and have a spotter on shore. You have to use your spidey senses and know when it's too dangerous to go in, or if you're already in when it's time to get out! Where I'm standing it's fairly shallow - the water is only up to my chest, but it's like being in a giant washing machine. The lakebed drops off quickly from there and it's hard to get your footing. I'm still a couple of hundred feet from waves breaking, as you wouldn't survive if you were in their path."

Dave is well-versed in capturing action, and draws upon his sports experience when he's in the lake. Much like when shooting hockey, his knowledge of the subject allows

WATER MOVING BACK OUT, IT'S ALMOST LIKE A SERPENT RISING. YOU CAN ALMOST TIME IT AND TELL WHEN IT'S ABOUT TO EXPLODE UPWARDS

him to predict the decisive moment, and anticipate the right time to press the shutter. "I'll spend time watching what's unfolding when I arrive. I can't say there's a rhythm to it, but I'll sit and study and learn how to anticipate it. You have to anticipate – it happens so fast that you can't react to it. If you're reacting to what you're seeing then you've missed the moment. You can see that water moving back out, it's almost like a serpent rising. You can almost time it and tell when it's about to explode upwards."

"There's a very good correlation between sports and this," Dave continues. "I'd say



90% of my sports photography is shot with strobe systems, so I've only really got one shot every two to three seconds with the power packs recycling. That way of shooting really helps you hone your timing – you've got to anticipate that peak moment as you've only got one shot at it. While I'm not strobing the wave images on Lake Erie, you still want you timing to be perfect and to anticipate that peak moment."

When it comes to recording the water as frozen sculptures, shutter speed is king. Depending on the light and the time of day, Dave tells me he's typically shooting at between $1/2500 \sec$ and $1/6400 \sec$, with his Canon EOS-1D X in an Aquatech Delphin 1D housing, with the camera set to its maximum 12fps burst, so he doesn't miss a moment. "The waves are explosive and things happen so fast," he says. "You can view a ten frame burst and the images either side of the frame that I choose are drastically different. We're talking fractions of a second – it's amazing how fast the water moves in that time."

These split seconds, frozen in time, reveal shapes, figures and even faces in the crashing, gloomy water. To the naked eye the

shapes are invisible, and it's only when Dave stops time at the press of his shutter that they become apparent. "No two frames are ever the same, and that moment is never going to be captured ever again," says Dave. "You never know what you've going to get. When you're talking about water and light and the shadows it creates, the things that you can see within them are sometimes absolutely mind-blowing. When I shot 'Eerie Erie', with the skull in the wave (see opening image), it was Friday the 13th. I looked at the back of the camera in the seconds following and my jaw dropped. I'm thinking 'you've got to be kidding me!' Very eerie!"

While most of the images that you see on these pages were captured last year, it's now storm season again in the Great Lakes, and Dave's most likely in the water as you read this, conjuring up more mystery and magic with his camera. The initial success he found with his wave photography was unexpected, but it is now pushing his career in an entirely new direction, away from sports and towards his initial dream of recording the natural world. There are also lots of eyes on him, with people waiting to see what wonders he

1) 'Lake Erie Monster'. 2) 'The Sandman'. 3) 'Lady Of The Lake'. captures next on the mysterious Lake Erie. "I always put high expectations on myself, but now that the Great Lakes series is out there, there's also expectations from news agencies and publishers that want to see more of this kind of work from me too. I always cross my fingers that the conditions are right, so around this time of year I make myself available and make sure I'm home to capitalise on things. At this point it's safe to say that nature photography is surpassing sports now for me. It's a direction that I want to continue moving towards. I'm not ready to give sports up, but with opportunities coming up for assignments in Antarctica, the Arctic and Australia photographing nature, it's the direction that I want to go in. I don't think there's anything else in this world that makes me feel the way I do when I am capturing a scene on Lake Erie, or photographing polar bears or great white sharks or whales. There's no better show in this world than what Mother Nature can put on. Nothing man can do can compete with that."

To view more of Dave's nature work, or to purchase prints, visit: www.davesandfordphotos.com

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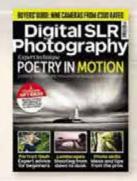




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NEW NIKON SNEAKS INTO PLAY

FRESHLY UPDATED ENTHUSIAST MODEL BRINGS WITH IT ADDED CONNECTIVITY

N WHAT WAS considered by many to be a relatively low-key product launch, Nikon has snuck out a new DSLR onto the market, just in time for the festive season. The Nikon D5600 is a 24.2-megapixel DX-format digital SLR aims at enthusiast photographers. Boasting Nikon's EXPEED 4 image processing engine, a versatile ISO range of 100-25600, 39-point autofocus system (nine cross-type sensors), and up to 5fps stills shooting in continuous burst mode, the D5600 looks well equipped to take on any subject.

There's also Nikon's new SnapBridge wizardry within, which uses Bluetooth low energy technology to provide a constant, low-power link to a compatible smartphone or tablet for instantly transferring images and video, as well as built-in Wi-Fi capability offering remote shooting from your phone.

There's a tilt and swivel multi-angle touchscreen LCD, and video fans are well catered for with Full HD video at up to 60fps, as well as continuous LiveView autofocus, a Flat Picture Control setting for advanced post-processing, and a built-in time-lapse mode, handed down from Nikon's high-end DSLRs. The bright optical viewfinder offers an impressive 95% coverage with around 0.82x magnification and the camera is light, weighing in at just 415g, which should make it a joy to both carry and use.

Nikon is offering the D5600 as a part of two lens bundles - either with the Nikkor AF-P18-55mm f/3.5-5.6G VR or Nikkor AF-S 18-140mm f/3.5-5.6G ED VR. The camera is available now for £800 with 18-55mm lens. or £990 with £18-140mm lens, respectively. www.europe-nikon.com



THE CULLMANN COLLECTION

Cullmann has announced a number of new additions to several of its product lines. The (£180) Mundo tripod features an integral monopod and will be available in four colours. Also launched are three mini travel tripods ranging from £60 to £80 in the Neomax series, each featuring an aluminium ball head and supplied with a carry case. The new Stockholm range of bags (from £45 to £90) are designed with a clean, minimalist look and includes a daypack and four shoulder bags. Also announced is the £250 CUlight FR60 flashgun and five CUlight LED video light panels, ranging in price from £50 to £300. www.intro2020.co.uk

IN BRIEF...

SENSOR OVERLOAD

Advanced image sensor supplier CMOSIS has unveiled the CMV50000, the world's first global-shutter full-frame CMOS sensor. It's unlikely to make its way into consumer-grade cameras, but the technology could trickle down in future developments. The CMV50000 boasts a resolution of 48-megapixels and can handle 8K video at 30fps! www.cmosis.com

LEICATL SYSTEM

High-end imaging experts Leica has announced its latest camera system – the Leica TL Building upon the existing Leica T system, each TL is machined from a single block of aluminium for a premium, solid feel. The camera packs a 16.2-megapixel APS-C sensor and is compatible with Leica's TL lens portfolio. Available in black, silver or titanium anodised finish, you'll need to dig deep to the tune of £1,450 if you fancy a TL for yourself. uk.leica-camera.com

TAKE TO THE SKIES

Following the Mavic Pro's launch in October, DJI has released another two new drones! The Phantom 4 Pro (1) builds upon the success of the existing Phantom 4, and packs a one-inch 20-megapixel sensor capable of shooting 4K at up to 60fps, and stills at 14fps. The Pro is the first DJI drone to use a mechanical shutter, eliminating rolling shutter effect in video. With a titanium and magnesium chassis, the Pro retains a similar weight to the Phantom 4, despite adding more advanced flight sensors.

Also new from DJI is the flagship Inspire 2 (2). This futuristic-looking aircraft offers a CineCore 2.0 image processor capable of 5.2k footage. The processor is built into the aircraft, allowing it to be used with the DJI X4S and X5S cameras. The Inspire 2 can zip to 50mph in just four seconds, and onto a top speed of 67mph. There's a new dual battery system, allowing up to a claimed 27 minutes of flight time.

Both drones are available to order now, although demand is due to be high, so we'd advise to take delivery dates with a pinch of salt. The Phantom 4 Pro will set you back £1,590 while the Inspire 2 retails for an eye-watering £3,060! www.dji.com

Cashback season

CANON Canon will hand over £100 cashback on the full-frame EOS 6D, with up to £80 cashback on a range of other DSLRs, mirrorless models and compacts. There's also up to £160 back if you buy a qualifying lens, printer or accessory too. www.canon.co.uk/cashback

NIKON Nikon is offering up to £510 cashback on a range of its products, including up to £85 if you buy a qualifying DSLR, or up to £170 on certain lenses. If you purchase a DSLR and up to three lenses, you can receive up to an extra £170 off your purchase. www.nikon.co.uk/cashback/

FUJIFILM Many of Fuiifilm's cash back offers expired at the start of December, but you can still claim up to £100 trade-in bonus on your old camera when you chop it in for a Fujifilm X-Pro2, X-T2, X-T1, X-E2S or X-T10. www.fujifilm.eu/uk/products/ digital-cameras/promotions

OLYMPUS Between now and 15 January 2017, Olympus is offering up to £75 cashback on the excellent OM-D E-M5 Mk II and OM-DE-M10 Mk II mirrorless models, as well as up to £75 back when you buy qualifying lenses. www.olympusuk.salespromotions.com

PENTAX Be quick for this one! There's a £100 trade-in bonus when you trade in any working DSLR or mirrorless camera for a Pentax K-1 before the end of the year. The offers applies to official recognised Pentax dealers only. www.ricoh-imaging.co.uk/

FUJIFILM X-T2

The latest retro-styled flagship in Fujifilm's X-series of mirrorless models offers one of the best alternatives yet to a digital SLR

Test: DANIEL LEZANO

SPECIFICATIONS

Price:£1,400 (body only) / £1,650 (XF18-55mm)
Image sensor: APS-C X-Trans CMOS III (23.6x15.6mm)
Resolution: 24.3-megapixels
Maximum image resolution: 6000x4000 pixels
AF system: Hybrid (TTL contrast / phase detection AF)
Metering: 256-zone, spot, average & centre-weighted

ISO range: 100-51200
Shutter speeds: 1/8000 sec-30 seconds & Bulb
Continuous frame rate: Eight frames-per-second
LCD: 3in 1,040,000-dot tilting monitor
Storage: Dual-slot SD (SDHC/SDXC)
Size: 132.5x91.8x49.2mm

Weight: 507g (including battery and card)
Website: www.fujifilm.co.uk

OU HAVE TO RESPECT how Fujifilm has approached the incredibly competitive interchangeable-lens camera market. Following on from developing its range of Nikon-based DSLRs, it diversified into making mirrorless models with an identity of their own. Its X-series, which started with the X-Pro1 in 2012, has developed an incredibly strong following amongst its users, as well as admiration from the general photographic community.

Unlike other camera systems, Fujifilm's X-series has two very distinct designs – one that follows the more standard mirrorless design and another that uses an innovative rangefinder set-up. Until recently this was the X-T1 and X-Pro2 respectively. The X-T2 is an update of the X-T1 that includes many of the features – including the sensor – of the X-Pro2, along with other improvements.

The X-T2 shares the looks and handling of its predecessor, which can only be a good thing. Its distinctive retro design looks fantastic and the large top-plate dials – a real throwback to SLRs from the '80s – offer a fast and enjoyable way to adjust exposure settings. The shutter speed dial and ISO dial both sport locks at their centres to prevent accidentally knocking them, while the exposure compensation dial has a C setting that switches control to the smaller input dials found on the camera's front and rear.

The camera body is constructed from magnesium-alloy and has 63 seals providing protection from dust and moisture. It feels robust and handles beautifully, but attach the optional grip with its additional controls (and extra batteries) and handling is even better.



The electronic viewfinder on the X-T1 was excellent and the X-T2's is even better. It sports a 2.36-million dot OLED display with 0.77x magnification but is twice as bright and features a higher frame rate of 60fps, which can be boosted to 100fps to keep fast-moving subjects smooth in the frame.

The rear 3in LCD monitor has the same 1,040,000-dot screen as the X-T1, which means no touchscreen, but benefits from a clever double-hinged design allowing the screen to be tilted up and down, then with the flick of a switch, tilt it to the right, which is ideal when shooting in portrait format.

The camera boasts an extensive set of features so, as you'd expect, the body sports a fair number of controls. But Fujifilm has clearly worked hard to make the camera as accessible as possible for less experienced users. Sliding levers beneath the top-plate dials cover the shooting mode and metering, while a four-way control and toggle stick supplement the key function buttons and help make navigating the camera's key features easier and quicker.

The 24.3-megapixel APS-C X-Trans III CMOS sensor at the heart of the X-T2 has already proven itself as highly capable in the X-Pro2, and represents a big jump in resolution over the 16.1-million pixels of the X-T1. The standard ISO range is ISO 200-12800, expandable as low as ISO 100 and as high as ISO 51200. Unlike the X-Pro2, its capabilities have been enhanced to allow it to capture 4K, as well as Full HD video.

With the specification clearly aimed at advanced users, exposure modes are limited to the core four of program, aperture- and shutter-priority and manual, with none of the scene modes you'd find on models aimed at less experienced users.

The autofocus system is one area that has been greatly improved over the X-T1, with the hybrid AF system employing 169 points (13x13) in the central area of the frame, with two sets of 6x13 contrast-detection points on either side giving a total of 325 AF points across the frame. As well as a boost in AF points, the algorithms have been dramatically improved to offer far better focusing performance, in particular for tracking moving subjects. It even sports three different AF parameters – Tracking Sensitivity, Speed Tracking Sensitivity and Zone Area Switching – to handle how the camera reacts to moving subjects.

While the metering system hasn't seen the same level of revamp, it's still got plenty to offer, including four metering patterns (multi-zone, spot, centre-weighted and average) and a wealth of overrides.



Above: The X-T2 was rarely troubled, except during a morning outdoor shoot in cool light, which led to blue is htones.





While picture styles aren't an area we normally highlight, it's worth mentioning Fuji's selection. Termed Film Simulation, the set-up allows you to base the characteristics of images on some of Fuji's most prized emulsions. So for vivid colours you'd choose Velvia, to give the vibrant effects of this classic slide film, for standard contrast and colour reproduction, Provia would be the choice, and so on.

With the AF system being improved with sports and wildlife photographers in mind, it's no surprise the X-T2 has a fast shooting rate. The standard rate is eight frames-persecond, but with the grip it can be boosted to 11fps. As mentioned earlier, the X-T2 has been primed for serious videography usage. It can shot 4K UHD (3840x2160 pixels) at a bit rate of 100Mbs, offering recording times of up to ten minutes (or 29 minutes with the battery grip attached). The body features a HDMI port, audio volume live monitoring/adjustment and microphone socket. A headphone socket can be found on the grip.

Other features worth noting are a high level of customisation, dual SD card slots,



interval timer, Wi-Fi and a PC socket for direct connection to studioflash.

It doesn't take long at all to realise what a special picture-taking tool the X-T2 is. Firstly, it's a camera that's enjoyable to use — perhaps more so for my generation who mastered their skills using cameras with a similar control set-up. Some cameras are efficient but sterile, the Fuji is the former but certainly not the latter — it's fun taking pictures with and makes you want to head out to shoot just to be able to use it further.

Not only is it a joy to use, it's also very capable. The AF system is a marked



X-SERIES LENSES & ACCESSORIES

Fujifilm has developed an excellent selection of over 20 lenses, with the XC line-up offering high quality optics at affordable prices, while the XF range boasts premium quality for the most discerning users. There are also three Zeiss Touit prime lenses available, a 1.4x teleconverter, Leica M-Mount adapter and macro extension tubes. Fuji has widened its range of flashguns and its latest model offers wireless TTL flash capabilities with the X-T2. The £300 VG-XT2 grip is an accessory every X-T2 user should consider, offering additional controls, power and improved handling. There is also a remote release, stereo microphone and other options like leather cases and filters.

CLOSEST RIVALS

- **OLYMPUS OM-D E-M1 MARK II:** Announced at Photokina 2016, this 20.4-million pixel Micro Four-Thirds model boasts five-axis stabilisation and an 18fps drive. Available this month, it will cost around £1,850 body-only.
- **SONY ALPHA 7 II:** This mirror less marvel is a popular choice for shooting stills and movies and boasts a 24.3-megapixel full-frame sensor, Full HD video and body-integral stabilisation. It costs around £1.350 body-only.
- CANON EOS 7D MARK II: This superb £1,400 DSLR has a 20.2-megapixel APS-C sensor, Full HD video, dual DIGIC 6 processors and a wealth of features for enthusiasts and pros alike.
- NIKON D610: At £1,300, the D610 is one of the more affordable full-frame DSLRs, boasting a 24.3-megapixel resolution, Full HD video, EXPEED 3 processor and dual SD card slots.

Top: High ISO interior shot reveals the sensor's excellent range. **Above left & right:** The X-T2's speed means it's possible to work fast – as when stalking zombies through Peterborough centre.

improvement over the X-T1 and it's certainly better at tracking subjects – although you'll need to spend a little time working out the settings. Metering is consistent, although I had the odd hiccup with White Balance in late evening light shooting portraits with a reflector. Noise isn't an issue, with excellent results even at ISO 2000, while the dynamic range is one of the best noted with APS-C sensors. In fact, there is very little at all to fault with its performance.

VERDICT

In terms of overall enjoyment, along with handling, features and performance, the X-T2 is arguably the best mirrorless model on the market and one of the best interchangeable-lens cameras. It ticks pretty much every box in terms of what you could want, and the system of lenses and accessories offers plenty of options. A brilliant camera.

Overall	93/100
Value	18/20
Performance	19/20
Features	19/20
Ease of use	18/20
Handling	19/20

FANTASTIC Nikons AND WHERE TO FIND THEM...





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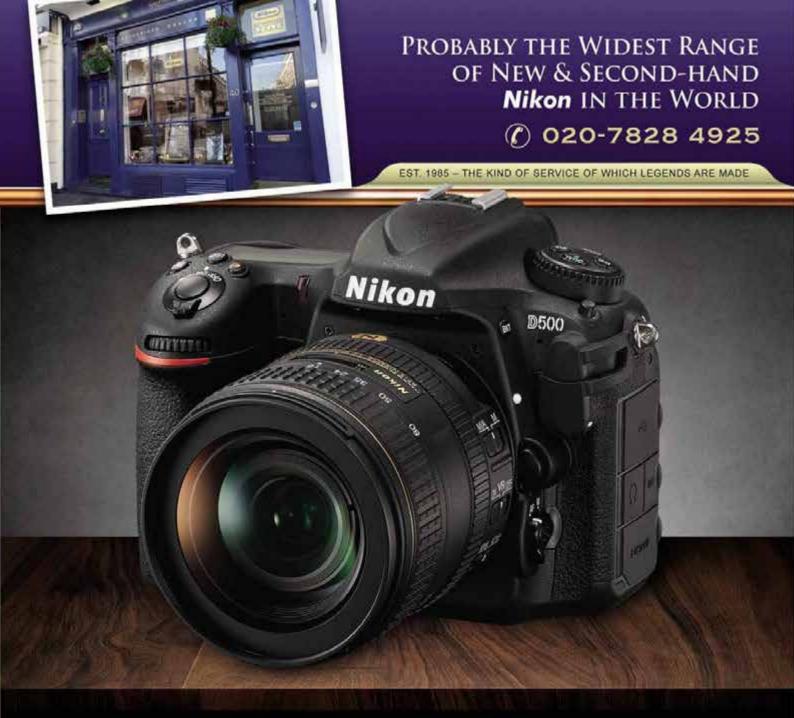
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N LAST MONTH'S issue, our Buyers' Guide looked at nine budget cameras ranging from around £300 to just under £1,000. It revealed the variety of options available to you and how, for a relatively modest sum, you're able to buy an outfit capable of great results. If you missed it, we've summarised the four Best Buys in the panel below.

In this Buyers' Guide, we cover nine very different cameras ranging from enthusiast-level to pro-spec models. Whether you're thinking of upgrading your current camera, adding to your existing kit or simply want to invest in a top-notch model rather than a budget buy, we've a selection of some of the best cameras currently available.

As you'll soon discover, the choice is diverse and some of the price tags will bring tears to your eyes. At the lower end of the price band, models suit semi-pro to pro use, while at the top end are more specialised models that won't suit every type of user. Be sure you properly research a shortlist of your favourites and be certain it's suitable for your needs so that you avoid a very costly mistake.



BUDGET BUYS: LAST ISSUE'S TOP PICKS UNDER £1,000...



Pentax K-S2

Pentax like to do things a little differently and this great budget buy comes in 120 colour combinations It's the world's smallest dustproof and weather-resistant DSLR and boasts a strong set of features, including a 20.12-million pixel APS-C sensor, body-integral Shake Reduction, Wi-Fi, a 3in LCD monitor on a tilting platform and digital filters. All for well under £550.



Fujifilm X-T10

Styled like a retro-DSLR, the X-T10 is not only an attractive camera, it's also one of the best value. This stripped-down version of the X-T1 boasts a 16.3-megapixel X-Trans II APS-C sensor powered by an EXR Processor II, a 3.2in tilting LCD monitor, Wi-Fi, built-in flash and Hybrid AF. General performance is excellent and you won't be disappointed by the image quality. A great budget buy.



Nikon D7200

This update of the excellent D7100 is one of the very best APS-C DSLRs on the market. It features a 24.2-million pixel resolution, EXPEED 4 processor, 51-point AF system, Wi-Fi and a six frames-per-second drive. The layout is typical Nikon so it shouldn't take long to get to grips with its controls, and general handling is excellent. The D7200 is a great choice as an upgrade or first DSLR.



Canon EOS 80D

This is a brilliant enthusiast-level DSLR packed with features. At its heart the EOS 80D has a 24.2-megapixel APS-C sensor that produces very high quality images as well as Full HD video. It boasts a responsive 45-point AF system and consistent metering, as well as features like Wi-Fi. It's a great all-round option with great handling and ease of use. One of the best models under £1,000.



Fujifilm X-Pro2

Street price: £1.349 (body-only)

Image sensor: APS-CX-Trans CMOS (23.6x15.6mm) Image resolution: 24.3-megapixels Size: 140.5x82.8x45.9mm Website: www.fujifilm.co.uk

UJI'S HYBRID RANGEFINDER is one of two flagship models - the other is the new X-T2, tested on p108. This retro-styled model boasts a hybrid viewfinder that combines an optical and electronic viewfinder. It's unique and not to everyone's taste, but if you like shooting with a rangefinder, you'll love it.

The magnesium-alloy body feels tough enough to withstand a bullet, while the buttons are proud and dials well-sized. The controls are fast and easy to access too. A four-way control on the rear provides access to the majority of functions. Fuji has updated its menu system and the newer version is far easier to navigate.

At its heart is a 24.3-million pixel X-Trans CMOS III sensor with no Optical Low-Pass Filter for further sharpness, along with a new imaging engine, the X-Processor Pro.

Autofocus is handled by 77 AF-points that cover approximately 40% of the frame. There are also extensive options available to customise both AF and manual focusing.



As well as 256-zone metering, the Fuji offers spot, centre-weighted and average metering. The maximum frame rate of eight frames-per-second is impressive, Full HD video recording at 1080p60 is available, Wi-Fi is included, and there are two SD card slots. If you're a fan of in-camera effects, you'll find toy camera, miniature and soft focus effects within the filters menu.

As well as the excellent range of options, you'll find yourself immersed in taking pictures. Your happiness won't fade when you review your images, as the sensor delivers a very high level of detail, excellent colours and good contrast. Metering and White Balance systems are consistent, noise is well controlled (up to ISO 3200) and dynamic range is good. The AF system is quick and accurate too.



VERDICT

There was no doubt that the X-Pro2 would be a hit. The hybrid viewfinder is far better than expected and the camera's handling is excellent. Its range of features leaves you wanting for little and its performance won't disappoint either. What makes it stand out is that it's one of only a few cameras that has that special something that makes it truly enjoyable to use.

Overall	00000
Value for money	00000
Performance	00000
Features	00000
Handling/Ease of use	0000

Nikon D750

Street price: £1.650 (body-only

Image sensor: Full-frame CMOS (35.9x24mm) Image resolution: 24.3-megapixels Size: 140x113x78mm Website: www.nikon.co.uk

HE D800 AND D810 might have grabbed the lion's share of the headlines with Nikon full-frame fans, but the D750 is a highly capable model that should not be overlooked. It's relatively compact for a full-frame model and balances nicely in the hand, especially when paired with a small lens, such as a 50mm. It's a very durable model, with a tough, weather-sealed body that can handle shooting in harsh climatic conditions.

Despite its diminutive size, the files it produces are impressive. While it may lack the sheer resolution of its stablemate. image quality can't be faulted. The full-frame sensor delivers images with great clarity and colour. Notably, noise is handled very well and only becomes an issue at very high ISOs. Speaking of which there's a huge ISO range of 50-51200. Dynamic range is impressive too.

The D750's autofocus system is incredibly quick and accurate. Boasting 51 autofocus points with 15 cross-type



sensors, it's said to be a slightly tweaked version of the same system used in the D4S and D810. Coupled with the camera's 6.5fps burst rate, the D750 is a body that excels at capturing action.

Another big selling point of the Nikon D750 is its articulated screen, which allows for shooting at unusual angles and sports a 1.229.000-dot screen. The D750 also offers Wi-Fi, allowing for a smartphone to be used for LiveView or as a remote release. While it lacks 4K, video can be recorded in Full HD (1080p) at 50p/60p.

For those looking to try in-camera techniques, the D750 sports a number of options, including HDR, time-lapse and a range of special effects filters. Other features include dual SD slots and a multi-mode built-in flash.



VERDICT

When it comes to describing the D750, the magic word is 'balance'. Nikon really hit the sweet spot with this camera; it has pro-spec image quality and performance, mixed with the exquisite handling of a lightweight, compact body, some neat features and a reasonable price tag. Sure there are one or two niggles, but there's not really much to complain about!

Handling/Ease of use	00000
Features	0000
Performance	00000
Value for money	0000
Overall	00000

Nikon D500

Street price: £1.730 (body-only)

Image sensor: DX-format CMOS (23.5x15.7mm) Image resolution: 20.9-megapixels Size: 147x115x81mm Website: www.nikon.co.uk

AUNCHED ALONGSIDE THE new flagship professional Nikon D5, the D500 shares several features with its bigger, much more expensive sibling – namely the impressive EXPEED 5 processor, 153-point Multi-CAM 20K autofocus system, and its pixel count too. Aimed at advanced enthusiasts and professionals seeking a fast, light APS-C model and extra pulling power (thanks to the 1.5x crop factor), the 10fps D500 looks at long last to put Nikon in a position to take on the highly popular Canon EOS 7D Mk II.

The D500 sports a 20.9-megapixel sensor designed to the same high specification as the D5's, and the lower pixel count allows for greater low-light sensitivity – the ISO range is 100-51200, expandable to a staggering ISO 1.6 million!

The EXPEED 5 image processor brings with it an impressive 10fps continuous burst. The D500 features dual card slots; one SD, and one high-speed XQD slot, which allows you to shoot up to 200



14-bit lossless compressed Raw files in a single burst! The processor handles 4K UHD video too, although this feature is only possible in a 1.5x crop mode – that's on top of the APS-C crop, and equates to a 2.25x crop over a full-frame DSLR.

Autofocus performance is where the D500 shines. Of the 153 autofocus points, 99 are cross-type. AF is lightning fast and very reliable too. A 180,000-pixel RGB sensor handles metering and aids subject recognition for improved AF tracking.

The 3.2in LCD monitor has a touchscreen and sits on a tilting platform. Other features include Wi-Fi and NFC.

Results are very sharp, with great colour rendition, while dynamic range is excellent with detail retrievable in all but the brightest highlights and darkest shadows.



VERDICT

If you want the fastest Nikon you can buy, but don't want to move up to full-frame, then the D500 comes out on top by a sizeable margin. Landscape and portrait shooters may not feel the benefit, but action and wildlife aficionados will appreciate the AF performance. This is a well-built, high quality product offering flagship technology and performance.

Overall	00000
Value for money	00000
Performance	00000
Features	00000
Handling/Ease of use	00000

Pentax K-1

Street price: £1.800 (body-only)

Image sensor: Full-frame CMOS (35.9x24mm) Image resolution: 36.4-megapixels Size: 110x136.5x85.5mm Website: www.ricoh-imaging.co.uk

PATTAX'S FIRST FULL-FRAME DSLR is a chunky beast, sporting a premium weatherproof body. The camera handles like a dream, with the extra-large handgrip providing a secure hold and the pronounced buttons and tactile knobs helping to make the camera faster and easier to operate. The optical viewfinder is superb, providing a bright and sharp image at near-100% field-of-view. The 3.2in LCD is excellent, with a high resolution screen, a gapless resin layer design that reduces internal reflections and a flexible mount that allows the monitor to be used and locked in a wide variety of angles.

The main point of interest of the K-1 is undoubtedly the full-frame sensor. Its 36.4-million pixel resolution and lack of anti-aliasing filter means Pentax finally has a model to rival the Canons, Nikons and Sonys for resolution. One advantage it has over all other full-frame models is body-integral stabilisation, which is claimed to give up to five stops benefit.



File processing is handled by a PRIME IV imaging engine that allows full-frame images to be captured at up to 4.4 frames-per-second (6.5fps for cropped APS-C images), with an extensive ISO range from 100 to 204800. While the K-1 offers Full HD video, it lacks 4K recording.

The K-1 boasts 33 AF points, including 25 cross-type sensors, while the 86,000-pixel RGB metering sensor assesses the subject's shape, colour and movement to provide a accurate analysis of the scene. Other features include Wi-Fi, a built-in GPS module and digital filters.

Image quality is superb, especially if you shoot in Raw, with high levels of sharpness and an extremely wide dynamic range. AF is positive for static subjects, but struggles a little with tracking moving subjects.



VERDICT

Pentax kept its fans waiting for a full-frame DSLR and, in most areas, the K-1 doesn't disappoint. It's as rugged as they come and boasts a wide range of features, as well as some clever innovations. Its sensor is its biggest attraction and thankfully, it does deliver. With a competitive price tag, it's sure to gain admirers from outside the Pentax community, as well as from within.

Handling/Ease of use	00000
Features	00000
Performance	0000
Value for money	00000
Overall	0000



Nikon D810

Street price: £2,400 (body-only)

Image sensor: FX-format CMOS (35.9x24mm) Image resolution: 36.3-megapixels Size: 146x123x81.5mm Website: www.nikon.co.uk

ASED ON THE best-selling D800, the D810 is a formidable beast. The 36.3-million pixel full-frame sensor is completely new and lacks an optical low-pass filter, so image sharpness should theoretically be even better than previous models. The sensitivity of the FX-format CMOS sensor has been improved, too, with a low native setting of ISO 64, (which can be reduced to ISO 32). Image quality should be even greater thanks to Nikon's EXPEED 4 image processor, which boasts new algorithms for cleaner, sharper images and improved colour reproduction. Another benefit is an increase in continuous shooting to five frames-persecond (7fps in DX mode).

Despite its large size it's comfortable to use for extended periods of time and balances beautifully with longer lenses. The chunky handgrip provides a firm hold, while the oversized, well-marked controls ensure the camera's many functions are fast and easy to select.



The viewfinder is large and bright, while the LCD monitor is also impressive, with a 1,229,000-dot 3.2in screen providing a sharp and accurate display. The D810's range of features is extensive and caters for all types of photographers. A full set of creative exposure modes is backed up by Nikon's ultra-reliable Matrix metering system (plus spot and centre-weighted). The 51-point AF system is the same as that found on the Nikon D4s, with the Multi-CAM 3500FX AF module working to provide fast and responsive autofocus. The D810 also looks after moviemakers too. Full HD movies can be recorded at 50p or 60p in both FX and DX modes, exposure control is extensive, as is audio control.

Image quality is incredible, with superb dynamic range, sharpness and colours.



VERDICT

While the list of differences between the D810 and its predecessors may not seem extensive, the improvements do add up to give slightly sharper results. D800/D800E users may not find the differences enough to justify upgrading to the D810, but for anyone else, the latest Nikon is a real temptation, giving extremely high-quality results in a fully-specified camera.

Overall	00000
Value for money	00000
Performance	00000
Features	00000
Handling/Ease of use	0000

Canon EOS 5DS R

Street price: £3.000 (body-only)

Image sensor: Full-frame CMOS (24x36mm) Image resolution: 50.6-megapixels Size: 152x116x76.4mm Website: www.canon.co.uk

HERE ARE TWO versions of the EOS 5DS - the 5DS and the 5DS R. Both cameras are exactly the same bar one feature - the 5DSR has a low-pass cancelling filter on the sensor.

In the flesh the EOS 5DS looks just like an EOS 5D Mk III and in practice it handles like one too, so immediately feels comfortable and familiar if you've a top-end EOS already. It has the same weatherproof magnesium alloy body; it takes the same battery; has the same shutter speed range, exposure modes and 61-point AF system. The menus and controls are also virtually identical.

The main difference is the leap in resolution, from 22.4-megapixels to 50.6-megapixels – more than double. The EOS 5DS also has dual DIGIC 6 processors to allow a decent shooting and burst rate despite the increased resolution (up to 510 Large JPEGs or 14 Raw files at 5fps with a UDMA CF card installed). The metering system of the EOS 5D Mk III is fantastic, but the 5DS goes a step further with its 150,000



pixel, 252-zone RGB+IR metering sensor, plus you can shoot Raw at reduced resolutions of 28- and 12.4-megapixels.

The EOS 5DS is quite large and feels substantial, but it's not over-heavy and it's very well balanced. The control layout is logical and the controls themselves are both a good size and accessible. The rear screen is big, bright and super-sharp, and so is the Intelligent Viewfinder II, which shows 100% of the image area.

The AF system is fantastic for a camera designed for general use, with a high level of customisation and fast, accurate performance. Image quality is stunning, with incredible levels of detail and vibrant, punchy colours. Images are crisp, punchy and the colours vibrant. Noise is well controlled and dynamic range is excellent.



VERDICT

The Canon EOS 5DS R is an incredible camera. Its ultra-high resolution requires careful usage to get the best from it, but use it right and the results are simply amazing. The sensor demands that you use premium glass to get the very best of it so if you're thinking of buying this camera, be sure you're ready to invest in a selection of the best optics too.

Overall	30000
Value for money	00000
Performance	00000
Features	00000
Handling/Ease of use	00000

Sony Alpha 7R II

Street price: £3.000 (body-only)

Image sensor: Full-frame BSI CMOS (35.9x24mm) Image resolution: 42.4-megapixels Size: 126.9x95.7x60.3mm Website: www.sony.co.uk

HE ALPHA 7R II SPORTS a whopping 42.4-megapixel back illuminated full-frame sensor in its slim mirrorless body. The images that this camera are capable of are mind-bogglingly detailed, thanks in part to the in-body five-axis image stabilisation and lack of optical low-pass filter. The A7 family is highly regarded for its dynamic range, too, and the A7R II is no exception. The low-light ability of the A7S has been passed on to its bigger brother – the A7R II boasts a native ISO of 100-25600, expandable to ISO 50–102400. Files are usable up to ISO 1600 with noise creeping in from ISO 3200.

A new shutter mechanism is said to eliminate the shutter slap problems that the original A7R suffered from. There's also an electronic front shutter option to reduce vibrations further.

For video fans, the A7R II is a highly covetable item – you can record 4K video without the need for an external recorder, although you do need super-fast Class 10



UHS-3 cards. There's a Super 35 (APS-C) crop mode too – the resolution is so high that this output is in 4K as well.

In hand, the weather-proof A7R II is slightly bigger than its predecessor due to the in-body image stabilisation, but the body is still small and being made from magnesium, it's strong, light and has a premium feel. It's weather sealed too.

A 1,228,800-dot 3 in LCD screen sits on a tilting platform, although most of your compositions will likely be made via the excellent OLED electronic viewfinder.

The AF system is impressive, with 399 phase-detection and 25 contrast-detection points, but can struggle a little with moving subjects. Image quality is excellent, with very high sharpness and incredible dynamic range.



VERDICT

This is the camera that the A7R should have been, with almost all of the original's problems addressed. The new sensor is incredible and images quality is second to none – packed with detail, great dynamic range and colour. The A7R II has its frustrations, but if you can get past these, and learn to love its controls, menus and quirks then you won't be disappointed.

Overall	0000
Value for money	0000
Performance	00000
Features	00000
Handling/Ease of use	0000

Canon EOS-1D X MkII

Street price: £5,200 (body-only)

Image sensor: Full-frame CMOS (35.9x23.9mm) Image resolution: 20.2-megapixels Size: 158x167x82.6mm Website: www.canon.co.uk

'HIS IS CANON'S FLAGSHIP MODEL and is an update of the original EOS-1D X, launched in March 2012. The full-frame CMOS sensor offers 20.2-million pixels as opposed to the 18-megapixels found on the original EOS-1D X. It's a fairly modest jump in resolution but those looking for higher pixel counts have a number of models in the EOS 5D-series to choose from, Instead, Canon has designed a camera that meets the needs of enthusiasts and professionals capturing wildlife, sports/action and news. Throughout the specification, speed is a priority. The AF system has been upgraded from the original and uses a 61-point system (with 21 cross-type sensors) with Dual Pixel CMOS AF for improved speed and reliability. It proves to be very fast and responsive. It's powered by a large lithium-ion cell that slips into the base and allows for shooting at up to 14fps. As well as a CompactFlash card slot, the Canon also has a CFast 2.0 card slot for faster transfers.



The camera's processing power is handled by Dual DIGIC 6+ processors, with another DIGIC 6 processor used to handle the 360,000-pixel metering sensor. It's powerful enough to allow for 4K shooting at up to 60p or Full HD at up to 120fp, which is ideal for slow motion video. The ISO range is 100-51200, which can be expanded from ISO 50 to ISO 409600.

The Canon sports a 3.2in LCD monitor with a high quality 1,062,000-dot screen but there's no touchscreen or tilt facility.

A 360,000-pixel RGB+IR sensor takes care of metering and does an excellent job, delivering consistent exposures.

Image sharpness is excellent while colour rendition is accurate. Noise is well handled, while dynamic range is wide. It delivers an excellent all-round performance.



VERDICT

The Canon EOS-1D X Mark II is not for everybody. If your photography demands the ultimate in speed, then this model, with its responsive AF and super-fast drive, could well be the ideal camera. It's more than capable of handling other subjects, but there are many other models that are more suitable at a fraction of the price. A camera for when speed matters most.

Handling/Ease of use	00000	
Features	0000	
Performance	00000	
Value for money	0000	
Overall	0000	



Nikon D5

Street price: £5,200 (XQD)/£5,400 (CF) (body-only) Image sensor: Full-frame CMOS (35.9x23.9mm) Image resolution: 20.8-megapixels Size: 160x158.5x92mm Website: www.nikon.co.uk

HIS NIKON FLAGSHIP is a workhorse built for action in all conditions and updates the highly-regarded D4s. It boasts a 20.8-megapixel full-frame sensor, which is up from 16.2-megapixels on the D4s. There are two versions available a dual XQD-card version and a dual CompactFlash-card version. The much faster XQD version is the choice when ultimate speed is required, such as for wildlife and sports when shooting large sequences of Raw and/or JPEG images.

The D5 features a new autofocus system, with an impressive 153 focusing points, of which 99 are cross-type sensors. It also boasts a dedicated autofocus processor. The increase in cross-type focus points aids with AF accuracy across the frame, while the new AF system is sensitive to -3EV. There's an extensive choice of options to suit different types of user and moving subject, and it proves to be very responsive. It's no surprise the camera has been accepted so well by sports pros.



The D5 features a 180.000-pixel RGB sensor to handle exposure and offers Matrix, spot, highlight-weighted and centre-weighted metering. It proves to be very consistent, handling tricky lighting conditions with ease.

The specification is extensive. It can shoot at up to 12fps with AE/AF tracking, or up to 14fps with mirror lock-up. The 3.2in, 2,360,000-dot LCD monitor boasts a touchscreen facility - a first for a professional-grade Nikon. Video can be recorded in 4K/UHD, as well as Full HD.

There are no complaints with the image quality from the Nikon D5. Images boast superb sharpness, while noise is very well controlled. Colour reproduction and tonal rendition is excellent, as is dynamic range. The D5 is a superb all-round performer.



VERDICT

The Nikon D5 is a fantastic camera. The improved frame rate, clever autofocus system and high ISO performance makes it a highly capable tool. However, like the Canon EOS-1D X MkII, its main appeal is to photographers needing the ultimate in speed, such as for wildlife and action. For general photography, any number of other Nikon DSLRs are better suited.

Overall	00000
Value for money	0000
Performance	00000
Features	00000
Handling/Ease of use	0000

Conclusion: Which premium kit?

It wasn't easy narrowing down the dozens of great cameras over £1,000 to the nine that we've reviewed here. We've excluded several excellent options to present a selection that's as varied as possible in terms of type, features and performance. And while it might be perceived as something of a cliché, there isn't a bad model among them, so whichever you choose, you should be more than happy with it. Just be sure that you choose the camera that covers all of your needs.

There is very little between our Best Buys and Highly Rated models, in fact we could easily have given all the cameras reviewed here one of these accolades. The hybrid rangefinder of Fuji's X-Pro2 won't suit everyone, but is sure to satisfy the needs of those who enjoy shooting with this style of camera. Nikon has two models gaining the top award - the D810 is a phenomenal full-frame DSLR offering superb image quality and a wealth of features. The newer D500 is a brilliant DX-format DSLR for advanced photographers looking for a highly capable all-round performer. Our last Best Buy is Canon's incredible EOS 5DS R, which offers a resolution that was once the reserve of medium-format cameras. These models, along with our Highly Rated cameras, are among the very best DSLRs and mirrorless models available today. There is one other camera that should be added to your shortlist and that's Fuji's other flagship – the X-T2. As you'll see on page 108, it rates as one of the finest cameras we've tested in years.





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SYRP GENIE MINI

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Test: JORDAN BUTTERS

SPECIFICATIONS

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DDING MOTION TO time-lapses can take your videos to the next level – by moving the camera in tiny increments between frames you can create a smooth motion that appears to go against the rapid pace of the world around you. Once upon a time, motion control devices for time-lapse were expensive, complicated devices, and solely the reserve of the experts or big productions. Not any more, however.

Syrp offers the clever little Genie in two sizes – regular and Mini. While the full size Genie offers advanced features, and a choice of rotating motion or integration with cable camera systems, the Mini is a much more portable, and affordable piece of kit that fits neatly into your camera bag, and is my pick of the two. The Genie Mini is a motorised mount that can rotate your camera through 360°, as well as trigger your camera to capture a range of effects.

The Genie Mini sits between your tripod and camera and is controlled with a free smartphone app. Pair the Genie with your phone via Bluetooth and the app allows you to select whether you want to shoot time-lapse (using very small, slow movements), video (faster continuous movement) or a panorama. You can dictate the degree of rotation, by setting start and stop points, which the Genie Mini previews for you by rotating the camera around quickly to that point. What's more, the







Genie Mini links into your DSLR or mirrorless camera using a remote lead (not supplied), so it can also be programmed to trigger your camera at the right moments using its built-in intervalometer. You simply use the app to set the time-lapse interval and either duration of shooting, or desired length of clip, and it adjusts the speed of motion to suit the angle you set and the length of the time-lapse - very clever! In Panorama mode, the Genie allows you to take perfect panoramic images by rotating the camera, stopping and firing the shutter – you simply set it off and it does it all for you. There are also additional features, such as ramp-in or ramp-out when shooting time-lapse or video, HDR mode, and the Mini can even interact with the full-fat Genie for two axis movement.

The Genie Mini is charged by USB, and is compatible with most cameras, however if you're only using the rotate functions and triggering the camera yourself, then it'll work with anything, including action cameras such as GoPros, or even smartphones! What's more, it's barely bigger than a lens, so will fit into your camera bag without hassle.

If I had to find fault with the Genie Mini then I think the motor noise is a bit on the loud side, but this is only noticeable if you're shooting video and rotating quickly. This could be worked around by mounting the microphone elsewhere for the scene.



VERDICT

If you want to add a touch of class to your time-lapses, or interesting motion to videos then the Syrp Genie Mini is a very impressive bit of kit. Clever, portable and easy to use – highly recommended.



Overall

00000

LumeJet prints

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Test: DANIEL LEZANO

Prices: Starts at under £5, plus p&p Contact: www.lumejet.com

ALTHOUGH DIGITAL photography allows more people to take a greater number of pictures than ever before, less are producing prints from their favourite images. This is despite the fact that

inkjet printers are affordable, easy to use and produce high quality results. For many, prints are reserved for their very favourite images, or as gifts, and are normally produced at their local high street lab or via popular online services such as Photobox.

LumeJet is a relative newcomer to online printing and aims to offer premium quality prints and products. This explains why its website has a more pragmatic 'pro' feel, as opposed to the 'fun and friendly' options from the likes of Photobox. Signing up for the service is easy, but navigating through the options, while fairly straightforward, could be made a little easier and more user-friendly.

The range of options and sizes is extensive, from various panoramics to square and more common print formats. The choice of finishes is good too, with Fujifilm's excellent Crystal Archive prints available in matte, gloss, lustre and silk.

The prices are slightly more expensive than you'll find with more popular services but that's due to the superior materials used, and because every print is inspected before being shipped. I was impressed by the print quality from the orders I've placed – tonal rendition and sharpness is excellent, while grain or artefacts aren't evident. The speed of service and packaging was very good too, with prints returned within a week.

VERDICT

While mass-market online and high street printers have their place, when you want to show off the quality of your images in print, then consider giving LumeJet's online service a try.



Overall

0000

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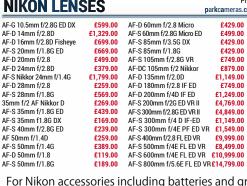
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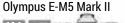
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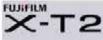


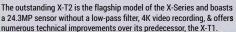
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ME Prism Finder£69 Metz SCA 386£49	CONTAX 645 AF USED 45 F2.8£499	NEX 5 body£12 FE 16-35 F4 ZA OSS E£99
Pro shade S£59 Lens Hood 65-80£20	CONTAX 35mm AF USED	FE 16-50 F3.5/5.6 EZ£14 FE 55-200 F4.5/6.3£14
SQAi Motorwinder£149	CONTAX MF USED	FE 90 F2.8 macro£79
Speed grip S£69 CANON DIGITAL AF USED	28-70 F3.5/4.5 MM£169 FUJI DIGITAL USED	Samyang 100 F2.8 macro.£22 MINOLTA/SONY AF USED
1DX MKII body£4599	X-Pro2 body box£1099	Dynax 9 body box£29 800Si body£6
1DX body box£2999 1D MKIV body£1299/1499	X-T1 body black £499/599	7xi body£4
1Ds MKII body£699 1D MKIII body£699		7000i body£3
7D body£499 5D MKIV body box£2999	X-M1 bodý blk box£149 16-55 F2.8 box£699	20 F2.8£19 20-35 F3.5/4.5 M- box£24
5D MKIII b/o box £1599/1799	18-55 F2.8/4 XF£399	24 F2.8 AF£19
5D MKII body£599/799 5D MKI body box£499	27 F2.8 XF box£199 35 F1.4 R box£399	24-50 F4£9 24-85 F3.5/4.5£1
60D body£399 50D body£299	50-230 F4.5/6.7 XC box£169	28 F2 f299 28 F2 8 f0
30D body£129	60 F2.4 macro box£429	28-80 F4/5.6£2 28-85 F3.5/4.5£9
500D body£199 450D body£149	X-T1 vertical grip f129	35-70 F4£3 35-70 F3.5/4.5£2
BG-E2£39 BG-E2N£49 BG-E4 box.£69 BG-E5£49	Centre filter 49mm£129	35-80 f4/5.6£2 35-105 F3.5/4.5£2
BG-E6£89 BG-E7£89 BG-E8£69	HASSELBLAD 6x6 USED	50 F1.4 AF£16
BG-E9 box£79	WLF late£110	50 F2.8 macro£14
BG-E11£199 BG-E13£139 BG-E16 box£149		75-300 F4.5/5.6£9
CANON AF USED EOS 1V body M- box£699	Sports viewfinder£69	100-300 F4 5/5 6 APO
EOS 3 body M- box£299 EOS 1n body£149	A12 chrome latest£299	VC700 grip£
EOS 1n body£149 EOS 30/5 body each£69	A12 late blk/chr£129 Polaroid back tatty£79	AW90£4 MD90 + BP90-M£2
EOS 650 body£39	50 F4 CF FLE£849	Angle finder VN£
EOS 50E/300V body each £29	140-280 F5.6 CF£799	16-80 F3 5/4 5 7Δ DT
EOS 500N/1000 b/o each £29 10-18 F4.5/5.6 IS STM£159	250 F5.6 CF£399	18-55 F3.5/5.6 SAM£1
10-22 F3.5/4.5 U£279 16-35 F2.8 USM LII£899		55-200 F4/5.6 DT SSM£6 75-300 F4/5.6£12
16-35 F2.8 USM LI£749	Pro shade 6093£99	SIGMA MIN/SONY AF USED
17-40 F4 L£449 17-55 F2.8 EFS IS USM£449	LEICA SLR USED	10-20 F4/5.6 EX DC£22 18-35 F1.8 Art£44
17-85 F4/5.6£199 24 F3.5 TSE MKI box£749	R7 body black£299	28-135 F3.8/5.6£2 28-300 F3.5/6.3 macro£14
24-70 F2.8 L USM box£799	LEICA OPTICS USED	50 F1.4£14
24-85 F3.5/4.5 USM£149 24-105 F4 L£599	Televid 77 + 20x60£649	50 F2.8 EX DG macro £14 55-200 F4/5.6£6
28 F1.8 USM box£259 28 F2.8£129	Trinovid 10x42£699	70-300 F4/5.6 DG OS £16 70-300 F4/5.6 APO DG £9
28-90 F3.5/5.6£79	LIGHTMETERS USED	150-500 F5./6.3 DG£49
28-135 F3.5/5.6 IS USM£199 50 F1.2 L USM box£999		170-500 F5/6.3£29 500 F4.5 APO£79
50 F1.4 USM£239 50 F2.5 macro£149	Sekonic L308£99	1.4x EX conv£9 TAM 10-24 F3.5/4.5 Dill£23 TAM 18-200 F3.5/6.3£9
60 F2.8 USM EFS mac£279	MAMIYA 645 MF USED	TAM 18-200 F3.5/6.3£9
70-200 F2.8 IS USM LI£899 70-200 F2.8 USM L£799	645 Prol TL + 80 + prism + winder box£399	TAM 70-300 F4.5/5.6 Di box£2
70-200 F4 U L£399 70-300 F4/5.6 L IS U£699/849		TAM 90 F2.8 £179/24 Teleplus 1.4x conv£6
70-300 F4/5.6 DO IS U£399 70-300 F4.5/5.6 IS USM£299	Polaroid back£29	Teleplus 2x conv£7
75-300 F4/5.6 MKII£99	HA401 120 RFH Box£49	Kenko 1.4x Pro 300DG£14 Min 5200i£2
85 F1.8 M£219 100 F2.8 USM box£319	120 Back£39 Winder£79	Min 5400HS£5
100-400 F4.5/5.6 L IS U £899	45 F2.8 N£199	NIKON DIGITAL AF USED
135 F2 L M- box£549	120 F4 macro£269	D4 body box£369
300 F2.8 LI IS U£2999) 150 F2.8 A£199) 150 F3.5 N£79	D3X body box£199 D3s body box£1499/179
400 F4 DO ISII L U£5799	150 F3.8 NL leaf£299	D3 body box£119
400 F5.6 L box£799 500 F4 LI IS USM£4499	Ext Tube 1, 2, 3S each£29	D2xs body£34 D2x body£34 D800 body£129
600 F4 IS LII£7499 Lifesize converter£99	Teleplus 2x converter£49 Vivitar 2x converter£39	10700 hody hox £69
12mm ext tube II box£59	MAMIYA TLR 6x6 USED	D600 body box£79 D300 body box£29
25mm ext tube II box£99 2x extender MKII£219	55 F4.5£199	D200 body box£14
2x extender MKIII£299 2x extender MKI£169		D7000 body £299/3/
Teleplus 2x DG conv£89 Kenko ext tube set DG£89	80 F2.8 late serviced£139	D5500 body box£47 D5000 body£10 D90 body£19
PB-E2 drive M- box£199	250 f4.5 late serviced£249	D50 body£
PB-E2 drive fits EOS1/3£149 SIGMA CAF USED	Paramender£49	MBD-15 grip£16 MBD-14 grip£17
10-20 F4/5 6 HSM box £219	Porrofinder £50	MRD-12 grip £21

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MAMIYA RB 6x7 USED	NIKON AF USED
Pro SD + 127 KL + WLF + back M£649 Pro S + 90 + WLF + back£449	F4E body£299 F65 body£39 F801 body£29/59
Pro S body£149 Pro S body scruffy£99 Plain prism late£199	F601 body£29 F55 body£25 10.5 F2.8 AFS DX box£399
WLF£79 Chimney£99 120 645V back£99	10-24 F3.5/4.5 AFS DX£549 14-24 F2.8 AFS M- box £1099
50 F4.5	14-24 F2.8 AFS£999 16 F2.8 Fisheye AFD£499 16-35 F4 VR£799
127 F3.5 KL£299 180 F4.5£149 Pro SD ext tube 2 82mm£99	16-85 F3.5/5.6 AFS VR£399
Pro SD ovt tube 1.45mm 600	18-35 F3.5/4.5 AFS£479
Ext tube 2 £49 MAMIYA RZ 6x7 USED RZ Proll + 90 + WLF + 120 RFH£499	18-55 F3.5/5.6 AFS VR£99 18-70 F3.5/4.5 AFS£119 18-105 F3.5/5.6 AFS VR£169
120 RFH Pro II£149	18-55 F3.5/5.6 AFS VR
120 RFH Pro I£49 Polaroid back£79	
FE701 prism£299 WLF£79 Winder II£69 50 F4.5 W£249 65 F4 box M£399	24-85 F3.5/4.5 VR£329 24-120 f4 AFS VR£699 24-120 F3.5/5.6 AFD£199
90 F3.5 W M- box£299	28 F1.8 AFS G£479 28-100 F3.5/5.6 AF G£69 28-105 F3.5/4.5 AFD£149
180 F4.5 W£199 Pro shade£49 MINOLTA/SONY DIGITAL USED	35 F1.8 DX£139 35 F2 AFD£199
Sony RX10 MKII box£949 Sony A7RII body box£2399	35 F1.8 DX. £139 35 F1.8 DX. £139 35 F2 AFD £199 35-70 F3.3/4.5 AF £59 50 F1.4 AFD £199 50 F1.8 AFD £99
Sony A6300 body £799 Sony A77 body £399 Sony A200 body £129 Sony VGB30AM £79	
Sony VGB30AM£79 Sony VG-C70AM£139	55-200 F4/5.6 AFS VR£99 55-200 F4/5.6 AFS£79 60 F2.8 AFS£349
Sony VG-C70AM£139 Sony HV56AM£169 SONY NEX USED	60 F2.8 AFD£199
A6000 body£329 NEX 5 body£129 FE 16-35 F4 ZA OSS E£999	70-200 F2.8 AF5 VRI£899 70-300 F4/5.6 VR£369 70-300 F4/5.6 AFD£129 70-300 F4 G£79 80-200 F2.8 AFD£349 85 F1.4 AFD£499 85 F1.4 AFS£499
FE 16-50 F3.5/5.6 EZ£149 FE 55-200 F4.5/6.3£149	70-300 F4 G£79 80-200 F2.8 AFD£349
FE 90 F2.8 macro£799 Samyang 100 F2.8 macro.£229 MINOLTA/SONY AF USED	85 F1.4 AFD
Dynax 9 hody hox f299	105 FZ AFD
800Si body £69 7xi body £49 7000i body £39 300Si body £19	105 F2.8 AFS VR£579 105 F2.8 AFD£399 180 F2.8 AFD M- box £449
20 F2.8£199 20-35 F3.5/4.5 M- box£249	200 F4 AF£999 200-400 F4 AFS VRII£3799
24 F2.8 AF£199 24-50 F4£99 24-85 F3.5/4.5£149	300 F2.8 AFS VRII M£3199 300 F2.8 AFS VRI£2699 300 F4 AFS M- box£699
28 F2£299 28 F2.8£99	300 F4 AFS box£599
28-80 F4/5.6£39 28-85 F3.5/4.5£99 35-70 F4£39	400 F2.8 AFS VR serviced £5899 400 F2.8 AFS non VR £3999 600 F4 AFS VR serviced £5999 600 F4 AFS II non VR
35-70 F3.5/4.5 £25 35-80 f4/5.6 £25 35-105 F3.5/4.5 £99	arev serviced £3499
35-105 F3.5/4.5£99 50 F1.4 AF£169 50 F1.7 AF£89	TC14EII£299 TC20EIII M- box£249 TC20EII£199 TC20E£149
50 F1.7 AF	SIGMA NAF USED 10-20 F4/5.6 EX DC£239 15 F2.8 FX DG£399
VC/00 grip±39	15 F2.8 EX DG
RC1000S/L cord£15 AW90£49 MD90 + BP90-M£79	18-250 F3.5/6.3 DC OS£ 149 24-70 F2.8 EX DG£249 28-300 F3.5/6.3 early£129 30 F1.4 EX DC£199
Angle finder VN£79 SONY LENSES USED	30 F1.4 EX DC£199 35 F1.4 Art£499 50 F1.4 Art M- box£499
16-80 F3.5/4.5 ZA DT£499 18-55 F3.5/5.6 SAM£59	50 F1.4 Art M- box£499 50-500 F4/6.3 DG£399/499 70-200 F2.8 OS DG£599
18-200 F3.5/6.3 DT	70-300 F4/5.6 APO DG£99 80-400 F4.5/5.6 DG OS£399
10-20 F4/5.6 EX DC£229 18-35 F1.8 Art£449	105 F2.8 EX DG OS£269 105 F2.8 EX£199 120-300 F2.8 DG OS£1199
28-135 F3.8/5.6£79 28-300 F3.5/6.3 macro£149	120-400 F4/5.6 DG£399 150-500 F5/6.3 DG OS£499
50 F1.4£149 50 F2.8 EX DG macro£149	1.4x or 2x EX DG conv ea£149 1.4x or 2x EX conv each£99 TAMRON NAF USED
55-200 F4/5.6£69 70-300 F4/5.6 DG OS£169 70-300 F4/5.6 APO DG£99	10-24 F3.5/4.5 Dill£239
70-300 F4/5.6 APO DG£99 150-500 F5./6.3 DG£499 170-500 F5/6.3£299 500 F4.5 APO£799	11-18 F4.5/5.6
1 Av FX conv fgg	70-300 F4/5.6£79
TAM 10-24 F3.5/4.5 Dill£239 TAM 18-200 F3.5/6.3£99 TAM 70-300 F4.5/5.6	TOK 10-17 F3.5/4.5 ATX£249 TOK 11-18 F2.8 ATX Pro£329 TOK 12-28 F4 ATX DX£399 TOK 80-200 F2.8 ATX Pro £299
Di box£79 TAM 90 F2.8£179/249 Teleplus 1.4x conv£69	TOK 80-200 F2.8 ATX Pro £299 FLASH / ACCESSORIES USED
Teleplus 2x conv£79 Kenko 1.4x Pro 300DG£149	SB-24£49 SB-25£49 SB-28£69 SB-80DX£79
Min 5200i£29 Min 5400HS£39 Min 5600HSD M£99	SB-80DX£19 SB-500 box£149 SB-600£169
NIKON DIGITAL AF USED	SB-800£149 SB-R1C1 kit£499
D3X body box£2499 D3X body box£1999 D3s body box £1499/1799	SD-8 batt pack£49 SU-800 commander box£199 DR-3 angle finder£59
D3 body box£1199 D2xs body£399	MB-10 (fits F90)£29
D45 body box. £3699 D4 body box. £1499 D3X body box. £1499 D3S body box. £1499/1799 D3 body box. £1499/1799 D2x body. £399 D2x body. £399 D20 body box. £1299 D700 body box. £699 D700 body box. £790	MB-23 (fits F4)
D300 body box£299	NIKON MF USED F3 body£199
D200 body box£149 D7000 body £299/349	FM2n body chr f249
D5500 body box£479 D5000 body£169 D90 body£199	F301 body£99 20 F3.5 Al£199 24 F2.8 Al£199
D50 body£79 MBD-15 grip£169	28 F2.8 AIS£199
MBD-14 grip£179 MBD-12 grip£229 MBD-10 grip M- box£149	28 F2.8 E box£69 28-85 F3.5/4.5 AIS£199 35-70 F3.3/4.5 AIS£129
MBD-10 grip£89	35-70 F3.5 AIS£99

Fig.	S£149	Pro SD + 127 KL + WLF	F4E body£299	50 F1.8 E£59
. 1999 100 February 149 190 100	£469	+ back M£649	F65 body£39	55 F2.8 AIS£199
1,000 1,00	f499	Pro S body		
1.610 Pain priem late	£249	Pro S body scruffy£99	F55 body£25	180 F2.8 AIS ED scruffy£179
1399 120 645V back.	£149	Plain prism late£199		500 F4 AIS£1499
x 269 59 514-5	£399		10-24 F3.5/4.5 AFS DX£549	500 F8 mirror early£279
1999 1913.8 K. 299 1967.8 February AFD 4499 55.17 HIL lead #FF 229 2		50 F4 5 £199		
1279 127 F35 KL	MLZ03	90 F3.5 KL	16 F2.8 Fisheve AFD £499	
Post Dest tube 2 82mm 199 17.55 F.28 AFS 15.56 15.50	£1899	127 F3.5 KL£299	16-35 F4 VR£799	DW-3 WLF find fit F3£99
	£749			
### Strube 2	£399		17-55 F2.8 AFS£499	
MAMIYA RZ 60 USED 1835 F3 5.75 6 AFS VIII 199 1610 body	£499		18-35 F3.5/4.5 AFS±4/9	
1.299 27 Prof. 90 - WILE 1999 187-197-545-54-545-54. 1929 1949	f999	MAMIYA RZ 6x7 USED	18-55 F3 5/5 6 AFS VR	F10 hody
12.06 P.J. 120 RFH Pro L	5£299	RZ ProII + 90 + WLF	18-70 F3.5/4.5 AFS£119	12-60 F2.8/4 SWD£379
1999 1916 1917	ac.£399	+ 120 RFH£499	18-105 F3.5/5.6 AFS VR£169	14-42 F3.5/5.6£49
March Marc	ea£149			
1.66 FOLD POLYMORD 1.67 24-70	£99	120 RFH Pro II£99		14-50 F3.8/5.6±199
EF70 prism	f79		24-70 F2.8 AFS box	
		FE701 prism£299	24-85 F3.5/4.5 VR£329	35-100 F2 M- box£999
D. Gardy G. Farbow M	CII.£169	WLF£79 Winder II£69	24-120 f4 AFS VR£699	40-150 F4/5.6£49
99 9F3.5 W M- Dox.			24-120 F3.5/5.6 AFD£199	50 F2 macro£279
180 F45 W.		00 F3 5 W M- boy £200	28 F I.8 AFS G±4/9	
Special Color	f249	180 F4.5 W	28-105 F3.5/4.5 AFD	
Sony RX10Mib (box	SD £649	Pro shade£49	35 F1.8 DX£139	OMD-EM1 body M- box.£499
Somy A7300 body	£449		35 F2 AFD£199	
	£100		35-/0 F3.3/4.5 AF	OMD E-M5 body box±299
Sony A77 body 6299 50F1.8 AF 79 12-50 F3.5/6.3 6.149	£199	Sony A6300 hody £799	50 F1.4 AFD	
Sept	£349	Sony A77 body£399		12-50 F3.5/6.3£149
Feb Sony VCG 200M	£549	Sony A200 body£129	55-200 F4/5.6 AFS VR£99	14-150 F4/5.6£399
English	£69	Sony VGB30AM£79		45 F1.8 box£199
SOWN NEX DEED 1.239 JOHAN SET 1.99 JOHAN	£169	Sony VG-C/UAM£139		40-150 F2.8 Pro£949
A6000 body	±1/9	SONY NEX USED	60 F2.8 AF £199	75-300 F4,8/6.7 MKII £299
E1695 FE 16-35 F4 ZAOS E-199 70-300 F4/56 AFD E129 HLD-S grip E149 FE 52-200 F4/56.3 E149 70-300 F4/56 AFD E149 HLD-S grip box E109 FE 52-200 F4/56.3 E149 70-300 F4/56 AFD E149 HLD-S grip box E109 FE 52-200 F4/56.3 E149 70-300 F4/56 AFD E149 HLD-S grip box E109 FE 52-200 F4/56.3 E149 FE 52-200 F4/56.3 E149 FE 52-200 F4/56.3 E149 FE 52-200 F4/56.3 E149 E159 E	£279		70-200 F2.8 AFS VRI£899	1.4x converter£249
Fig. 53 FA S S S S S S S S S S S S S S S S S S		NEX 5 body£129	70-300 F4/5.6 VR	FL600R flash box£199
FESS-200 F43/6.3	£499	FE 16-35 F4 ZA OSS E£999		HLD-8 grip£149
FE90F28 macro		FE 55-200 F4 5/6 3		HLD-6 grip DOX±109
Samyang 100 P28 mascro £229 SF F14 AFS	£299	FE 90 F2.8 macro £790	85 F1.4 AFD £490	VF-2 viewfinder £179
	£169	Samyang 100 F2.8 macro .£229	85 F1.4 AFS£329	OLYMPUS OM USED
Section Sect		MINOLTA/SONY AF USED	85 F1.8 AFD£249	OM-4T body£249
199/599 7ai body	£1099	Dynax 9 body box£299	85 F3.5 DX M- box£269	OM-1n body chr£169
1399 70001 body		800Si body£69	105 F2 AFD£649	OM-2SP body£149
189 180	f379	7000i body £39		OM-1n body 51K or chr±149
20 20 20 20 20 20 20 20	£369	300Si body£19	180 F2.8 AFD M- box£449	28 F3.5£49
£6699 20-35 F 3.5/4.5 M- box. £249 200-400 F 4 RS VRIII£3199 35-105 F 3.5/4.5 £79 £199 24-50 F 4 £79 200 F 2.8 RS VRIII M- £199 200 F 2.8 RS VRIII M- £199 200 F 4.5 RS VRIII M- £199 <td>£149</td> <td>20 F2.8£199</td> <td>200 F4 AF£999</td> <td>35-70 F3.5/4.5£79</td>	£149	20 F2.8£199	200 F4 AF£999	35-70 F3.5/4.5£79
16199 24-50 F4	£699	20-35 F3.5/4.5 M- box£249		35-105 F3.5/4.5£79
14 or 25 auto ext tube ea 129	£399	24 F2.8 AF£199	300 F2.8 AFS VRII M£3199	
x_fife) 92 8F.Z_f.299 28 F.Z_s f.99 300 F4 AFS boxf.599 28-86 F4/s.6f.39 400 F.Z_s AFS VB structer £5899 f.26 28-85 F3.5/4.5f.99 400 F.Z_s AFS VB structer £5899 f.26 28-85 F3.5/4.5f.99 400 F.Z_s AFS VB structer £5899 f.26 28-85 F3.5/4.5f.99 400 F.Z_s AFS VB structer £5899 f.26 28-85 F3.5/4.5f.99 400 F.Z_s AFS VB structer £5899 f.26 28-85 F3.5/4.5f.99 10.00 F4 AFS VB structer £5899 f.26 28-85 F3.5/4.5f.99 10.00 F4 AFS VB structer £5999 f.26 28-85 F3.5/4.5f.99 10.00 F4 AFS VB structer £5999 f.27 28-85 F3.5/4.5f.69 10.00 F3.5/5.6f.69 10.00 F3.5/5.6f.69 10.00 F4.5/5.6f.99 10.00 F4 AFS VB structer £599 f.27 28-85 F3.5/5.6. 28-95 15.72 28-5 F3.5/5.5. 28-5	£399	24-50 F4£99 24-85 F3 5/4 5 £149		
28-80 F4/5.6.		28 F2f299 28 F2.8f99	300 F4 AFS box	
28-85 F3.5/4.5.	£599	28-80 F4/5.6£39	400 F2.8 AFS VR serviced £5899	FZ200 Bridge camera£199
SEPTING STATE ST	£429	28-85 F3.5/4.5£99		G6 body black£299
EIDED SIGH AF	£269	35-70 F4£39		G3 body box£129
EIDED SIGH AF	£129	35-70 F3.5/4.5±25		GX / body±399
SEP SOF14 AF	f129	35-105 F3.5/4.5	TC14FII	GE7 body silver boxf199
Color Colo	SED	50 F1.4 AF£169	TC20EIII M- box£249	GF3 body black£99
	£199	50 F1.7 AF£89	TC20FIIf199 TC20Ff149	GF1 body£79
## ## ## ## ## ## ## ## ## ## ## ## ##	£110	50 F2.8 macro£149	SIGMA NAF USED	12-35 F2.8£549
	£99	75-300 F4.5/5.6±99		14 F2.5199
## 1820 1820	f69	100-300 F4.5/5.6 APO£149	18-50 F2.8 FX DC Macf149	14-45 F3.5/5.6
.fil29 AW90.	£89		18-200 F3.5/6.3 DC OS£199	20 F1.7£199
£79 MD90+ BP9OM £79 28-300 F3.5/6.3 early £129 ILYZ box £149 £849 Angle finder WN £79 30F14 EX DC £199 BG-GH3 grip £99 £799 16-80 F3.5/45 Zb DT £499 18-55 F3.5/6 SAM £59 55 C90 F3/65 DT £499 SD-500 F3/65 DT £499 FS-57 S3/65 SAM £500 F3/65 DT £490 \$500 F3/65 DT £490 \$500 F3/65 DT £490 \$500 F3/65 DT £490 \$600 F3/65 DT<	f299	RC1000S/L cord£15	18-250 F3.5/6.3 DC OS£149	35-100 F4/5.6£199
## Angle finder VN	£129	AW90£49	24-70 F2.8 EX DG£249	
Add SORY LENSES USED			20-300 F3.5/6.3 early £129	RG-GH3 grip f00
1.690 16-80 F3.5/4.5 ZADT 1.699 50 F1.4 Art M- box	£479	SONY LENSES USED	35 F1.4 Art£499	PENTAX DIGITAL USED
1.59 18-200 F4/5.6 DT SSM	f799	16-80 F3.5/4.5 ZA DT£499	50 F1.4 Art M- box£499	K3 body£499
## 55-200 F4/5.6 DT SSM _ f.69 ## 70-300 F4/5.6 APO DC _ f.69 ## SJON F4/5.6 DT SSM _ f.69 ##	£199	18-55 F3.5/5.6 SAM£59		Km body£149
. £49 75-300 F4/5.6 EX DC	£399	18-200 F3.5/6.3 DT±199		MACNIA AND SED
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D3300 5.0 fps D3300 From £289

D3300 Body D3300 + 18-55mm AF-F £369

Cashback

D7200

24.2 6.0 fp:

D7200

D7200 Body

D810

36.3 mp

Full Frame

D810

7.0 f

D7200 + 18-105mm

D5600 5.0 fp D5600 From £799

D5600 + 18-55mm **D5600** + 18-140mm

D610

24.3 mg

6.0 fps

D610

D610 Body

12.0 fr

Full Fra

NEW D5

IEW D5 Body

D610 + 24-85mm

£799 £989

From £1299

£5199

24.1 6.0 fp D7100 From £729 D7100 Body D7100 +18-105mm VR £949

D750 **24.3** mp 6.5 fps From £1599

D750 D750 Body £85 Cashback D750 + 24-85mm VR 62099

D500 20.9 10.0 fps D500 £1729

IEW D500 Body

FP 35mm f1 4 L II USM EF 50mm f1.2L USM....

EF 50mm f1.4 USM. FF 85mm f1 8 USM EF 100mm f2.8 L IS USM Macro £659 EF 135mm f2 L USM... EF 180mm f3.5 L USM Macro £1369 EF-S 10-18mm f4.5-5.6 IS STM . £185

£165 Inc. £20 Cashback EF-S 10-22mm f3.5-4.5 USM

£419 Inc. £50 Cashback

Canon Lenses EF 24mm f1.4L II USM £1479 EF 11-24mm f4L USM 62699 £1799 FF-S 15-85mm f/3 5-5 6 IS USM £579 EF 16-35mm f2.8L III USM£2349 £1279 EF 16-35mm f2.8L Mk II USM £1199 £279 £279 FF 16-35mm f4 LIS USM 6899

£819 Inc. £80 Cashback EF 18-135mm f3.5-5.6 IS STM... £349 c. £50 Cash

EF 24-70mm f2.8L II USM . EF 24-70mm f4.0 L IS USM £515 Inc. £160 Cashback

EF 100-400mm f4.5-5.6 L IS II USM £1795 EF-S 18-200mm f3.5-5.6 IS. £389

EF 70-300mm f4-5.6L IS USM.... £1029

Canon Cashback* offer ends 18.1.17

EF 24-105mm f4.0 L IS USM...... £799

FF 24-105mm f4L IS ILUSM \$1129

EF 70-200mm f2.8 L IS II USM... £1999

EF 70-200mm f4.0 L IS USM £1019

D810A Body £2814 Inc. £85 Ca Nikon Lenses

24mm f1.8 G ED AF-S £629 58mm f1.4 G AF-S. ..£1349 105mm f2.8 G AF-S VR IF ED Micro..... 10-24mm f3 5-4 5 G AF-S DX £729 14-24mm f2.8 G AF-S ED. ...£1619 16-80mm f2.8-4 G AF-S VR ED DX 18-200mm f3.5-5.6 G ED AF-S DX VR II £625 18-300mm f3.5-6.3 G ED VR AF-S DX £629

From £2399

From £849

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Nikon Cashback* offer ends 15.1.17

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MBAG75N Bag	£199
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MT055CXPRO3	
Carbon Fibre	£269
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MT190XPRO3	£129
MT190XPRO4	2139
MT190CXPRO3	
Carbon Fibre	£229

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496BC2 £65 XPRO Ball Head 200PL... £114.95 327RC2 £139



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ise LED Ezybox x Speed-Lite 2 £49.95 Lights From £44.95



Lastolite













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- Internationally recognised



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- 2 Receive advice to improve your panel
- 3 Submit your panel for professional appraisal to become a Licentiate (LRPS), Associate (ARPS) or Fellow (FRPS) of the Royal Photographic Society

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Optical Glass Filters (no colouration)

ND8 - 3 stops - optical glass

46mm	67mm
49mm	72mm
52mm	77mm
5.5mm	82mm
58mm	Bómen
62mm	
A CONTRACTOR OF THE PARTY OF TH	

Close Up Sets

46mm +1+2+4	+10
49mm +1+2+4	+10
52mm +1+2+4	+10
55mm +1+2+4	
58mm + 1+2+4	+10
62mm + 1+2+4	+10
67mm +1+2+4	+10
72mm +1+2+4	+10
72mm +1+2+4	100
77mm +1+2+4	+10
82mm + 1+2+4	

4mm slim ring UV

37mm	58mm
39mm	62mm
40.5mm	67mm
46mm	72mm
49mm	77mm
52mm	82mm
55mm	Bómm

Circular Polarisers

37mm	58mm
39mm	62mm
40.5mm	67mm
46mm	Z2mm
49mm	ZZmm
52mm	82mm
DOMM!	BOmm

-	MADE IN DI
Blue Wat	ter 100mmx100mm
	ter 104mm Disc
Slue Wat	er 125mmx125mm
Blue Wal	
Blue Wat	ler 30mm
Blue Wat	er 30.5mm
Blue Wat	or 34mm
Blue Wat	ter 37mm
Blue Wat	er 37.5mm
	er 40.5mm
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Blue Wat	
Blue VVal	ar 40mm
Blue Wat	
Blue VVal	
Blue Wat	
Blow World	

For water without Coral
Green Water 100mmx100mm
Green Water 104mm Disc
Green Water 125mmx125mm
Green Water 27mm
Green Water 30mm
Green Water 30.5mm
Green Water 34mm
Green Water 37mm
Green Water 37.5mm
Green Water 40.5mm
Green Water 43mm
Green Water 45mm
Green Water 49mm
Green Water 52mm
Green Water 55mm

INFRA RED 720nm Ont. GROUND GLASS

Infra Red 49mm
Infra Red 52mm
Infra Red S5mm
Infra Red 58mm
Infra Red 62mm
Intra Red 67mm
Infra Red 72mm
Infra Red 77mm Infra Red 82mm
John Ked 82 mm

Opt. GROUND GLASS 2 STOPS

ND4 27mm
ND4 28mm
ND4 30.5mm
ND4 34mm
ND4 37mm
ND4 37 Smm
ND4 40.5mm
ND4 43mm
ND4 46mm
ND4 49mm
ND4 52mm
ND4 55mm
ND4 58mm
ND4 62mm
ND4 67mm
ND4 72mm

THREE STOP

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4mm slim ring UV

Green Water 58mm Green Water 62mm Green Water 67mm Green Water 72mm

25mm 27mm

28mm

30 5mm

35.5mm

37mm 37.5mm

39mm 40.5mm

43mm

34mm

FILTERS MADE ON A MERCURY BED MADE IN JAPAN

4B

Skylight	18.37mm
Skylight	18 40.5mm
Skulight	1B 43mm
	18 46mm
Skylight	18-48mm
Skylight	18 49mm
Skylight	1B 52mm
200	THE PERSON NAMED IN
Skylight	18 55mm
Skylight	18 58mm
Skylight	18 62mm
CALL STREET	10 42
: Skylight	18 67mm
Skylight	1B 72mm
	18.77mm
Skylight	1B 82mm
100	

OPTICAL FILTER

OKOOMD ODISS
Shuhohi 2dmm
et hall be
Skylight 25mm
Skylight 25.5mm
Skylight 27mm
Skylight 28mm
Skylight 30mm
Skylight 30.5mm
Skylight 34mm
Skylight 30.5mm Skylight 34mm Skylight 35.5mm
Skylight 37mm
Stocking a Viller
Skylight 37 3mm
Skylight 40.5mm
Skylight 37.5mm Skylight 40.5mm Skylight 43mm Skylight 46mm
Shylight About
et della de
Skylight 48mm
Skylight 49mm
Skylight 55mm
Shidahi 50mm
Skylight Johns
Skylight 62mm
Skylight 67mm
Skylight 55mm Skylight 55mm Skylight 62mm Skylight 67mm Skylight 67mm Skylight 67mm Skylight 72mm
Skylight 72mm
STATE OF STREET

* 51.01.0
ND4 27mm
ND4 28mm
ND4 30,5mm
ND4 34mm
ND4 37mm
ND4 37.Smm
ND4 40.5mm
ND4 43mm
ND4 46mm
ND4 49mm
ND4-52mm
ND4 55mm
ND4 58mm
ND4 62mm
ND4 67mm
ND4 72mm
BUTLA Transco

N	DB.	37mm
		40.5m
N	D8	46mm
N	D8	49mm
N	80	52mm
		55mm
N	08	58mm
N	D8	62mm
N	DB	67mm
14	D8	72mm
N	D8	77mm

-4	SIC	PS.	
N	DIO	46m	im
N	D16	52m	m
		55m	
38	016	58m	m
		62m	
		67e	
N		72m	m
N	DIO	77m	m
-N	D16	82m	m

Opt. GROUND GLASS

9	STOPS	
N	400 52	nnn
N	0.400 58r	nm
N	0 400 620	nm
N	0.400 676	nm
N	3 400 72r	nm
N	3 400 77 _f	nm
N	0 400 82r	nm

Out GROUND

ahu areans
Polariser Linear 39mm
Polariser Linear 43mm
Polariser Linear 40mm
Polariser Linear 52mm
Polariser Linear 55mm
Polariser Linear 58mm
Polariser Linear 62mm
Polariser Unear 67mm
Polariser Linear 72mm
Polariser Linear 77mm
Polariser Linear 82mm
Polariser Linear 86mm
Polariser Circular 25mm
Polariser Circular 25.5mm
Polariser Circular 27mm
Polariser Circular 28mm
Polariser Circular 30mm
Polariser Circular 30.5mm
Polariser Circular 34mm
Polariser Circular 35.5mm
Polariser Circular 37mm
Polariser Circular 37.5mm
Polariser Circular 40.5mm
Polariser Circular 43mm

0-, 0.,	,
riser Circular 46mm	Starburst 6X 77n
riser Circular 48mm	Starburst 8x 37n
riser Circular 49mm	Starburst 8x 49n
riser Circular 52mm	Starburst 8x 52n
riser Circular 55mm	Starburst 8x 55n
riser Circular 58mm	Starburst 8x 58n
riser Circular 62mm	Starburst 8x 62n
riser Circular 67mm	Storburst 8x 67n
riser Circular 72mm	Storburst 8x 72n
riser Circular 77mm	Storburst 8x 77n
ariser Circular 82mm ariser Circular 86mm	DIFFUSER

Opt. GROUND CLOSE UP SETS +1, +2, +3

The state of the s
Close Up Set 37mm Close Up Set 40.5mm
Close Up Set 43mm Close Up Set 43,5mm
Close Up Set 46mm
Close Up Set 49mm Close Up Set 52mm
Close Up Set 55mm Close Up Set 58mm
Close Up Set 62mm Close Up Set 67mm
Close Up Set 72mm Close Up Set 77mm
Clase Up Set 82mm made in China
And the state

Opt. GROUND

HALF DIOPIER
Splir Field 49mm
Split field 52mm
Split Field 55mm
Split Field 58mm
Split Field 62mm
Split Field 67mm

Opt. GLASS VERY FINE ETCHED

Commence AM FOR many	
Starburst 4X 28mm	
Storburst 4X 30.5m	
Starburst 4X 34mm	
AND THE RESERVE AND THE PARTY OF THE PARTY O	urr
	NO.
Storburst 4X 37mm	
Starburst 4X 40.5m	
Starburst 4X 43mm	
Starburst 4X 43.5m	im
Starburst 4X 46mm	
Samburat 4X 49mm	
Starburst 4X 52mm	
Starburst 4X 55mm	
Starburst 4X 58mm	
Storburst 4X 62mm	
Starburst 4X-67mm	
Starburst 4X Z2mm	
Starburst 4X 77mm	
Starburst 4X 82mm	
Starburst 6X 27mm	
Starburst 6X 28mm	
Starburst 6X 30.5m	
Starburst 6X 34mm	
Starburst 6X 37mm	
Starburst 6X 40 5rr	WT
Starburst 6X 43mm	
Starburst 6X 46mm	
Starburst 6X 49mm	
Starburst 6X 52mm	
Starburst 6X 55mm	
Starburst 6X 58mm	
Starburst 6X 62mm	
Starburst 6X 67mm	
Storburst GA GV mm	

Storburst 6X 72mm

Storburst	6X 77mm
Starburst	8x 37mm
Starburst	8x 49mm
Samburst	8x 52mm
Starburst	8x 55mm
Starburst	8x 58mm
Storburst	8x 62mm
Storburst	8x 67mm
Storburst	8x.72mm
	8x 77mm

DILLOSEU					
Soft	Focus 49mm				
Soft	Focus 52mm				
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5oft	Focus 58mm				
Soft	Focus 62mm				
Soft	Focus 67mm				
Soft.	Focus 72mm				

LGLASS

FOG OPTICAL
Fog 49mm
Fog 52mm
Fog 55mm
Fog 58mm
Fog 62mm
Fog 67mm
Fog 72mm
Out DIODTE

Centre	Spot	C	locar	49mm
Centre	Spot	C	lear	52mm
				55mm
Centre	Spot	C	lear	58mm
Centre	Spot	C	lear	62mm

Mulit	Image	3x	49mm
Modit	Image	3x	52mm
			55mm
Mulit	Image	3x	58mm
Multi	Image	5x	52mm
A A July	Benevio.	Fine	50 mm

Colours for B&W Ground optical alc

ONE STOP
Yellow 2x 46mm
Yellow 2x 49mm
Yellow 2x 52mm
Yellow 2x 55mm
Yellow 2x 58mm
Yellow 2x 62mm
Yellow 2x 67mm
Yellow 2x 72mm
Yellow 2x 77mm
Yellow 2x 82mm
Yellow 2x 86mm
ONE STOP
Y/G 2x d9mm Vellow Green
Y/G 2x 52mm

/G 2x 55mm G 2x 55mm G 2x 58mm G 2x 62mm G 2x 67mm G 2x 72mm

ONE AND ONE

THIRD STOP			
Orange	2x	4ón	m
Orange			
Orange			
Orange			
Orange	2x	58n	Sens

Orange 2x 67mm Orange 2x 72mm Orange 2x 77mm Orange 2x 82mm Orange 2x 86mm

TWO STOPS

Green	2x 46mm
Green	2x 49mm
Green	2x 52mm
Green	2x 55mm
Green	2x 58mm
Green	2x 62mm
Green	2x 67mm
Green	2x 72mm
	2x 77mm
Green	2x 82mm
Green	2x 86mm

TUDEE CTAD

100	66	3101
Red :	2x	46mm
Red :	2x	49mm
Red	2x	52mm
		55mm
Red .	2x	58mm
		62mm
		67mm
		72mm
		77mm
		82mm
Red	2x	Bómm

Conversion Filters

We are unable to replace these with Japanese filters - replacements be UK Optical nasin filte



JAPANESE OPTICAL GLASS

81A / 2mm 81B 55mm 81B 67mm 82A 49mm 82A 52mm 82A 55mm 82A 55mm 82A 62mm 82A 62mm	85A 49mm 85A 52mm 85A 53mm 85A 58mm 85A 62mm 85A 77mm 858 49mm 858 52mm 858 55mm 858 52mm 858 62mm 858 67mm 858 72mm FID 52mm FID 52mm FID 52mm FID 62mm FID 62mm FID 62mm FID 62mm FID 62mm FID 62mm FID 72mm FID 62mm FID 62mm FID 62mm FID 62mm FID 62mm FID 55mm FID 62mm FID 62mm

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cylight 82mm cylight Bómm

ght 105mm

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- KOOD uses small untoughend, thick Pilkington Optical Glass Mold's to produce the highest possible optically flat resin Filters without curvature to ensure infinity focus
 Casting system eliminates all bleach so no loss of density or colour over time

- Batch tested every 12 filters to maintain good neutrality All filters packed in between card, in wallets which allow no movement or dust
- KOOD Manufactures its own filters from casting to packing

A FILTER TO FIT ALL COKIN A SIZE SYSTEMS



A Filter Holder Set

Adapter Rings Only Fit Kood Holder

A Filter Holder Cap A Filter Holder Cap
A Filter Holder Hood
A Adapter Ring 37mm
A Adapter Ring 38.1mm
A Adapter Ring 40.5mm
A Adapter Ring 49mm
A Adapter Ring 49mm
A Adapter Ring 52mm
A Adapter Ring 55mm
A Adapter Ring 55mm
A Adapter Ring 58mm
A Adapter Ring 62mm

GRADIENTS

0.3 ND Gradient Soft 0.3 ND Gradient Hard Cut 0.6 ND Gradient Soft 0.6 ND Gradient Hard Cut 0.9 ND Gradient Soft 0.9 ND Gradient Hard Cut Light Blue Graduated Dark Blue Graduated Cool Blue Gradient Light Green Graduated Dark Green Graduated Light Mauve Graduated Dark Mauve Graduated Light Red Graduated Dark Red Graduated Light Tobacco Graduated Dark Tobacco Graduated Light Fog Graduated Strong Fog Graduated Light Yellow Graduated Dark Yellow Graduated Light Sunset Graduated Dark Sunset Graduated **POLARIZERS**

Linear Polariser Filter Circular Polariser Filter

NEUTRAL DENSITY

Neutral Density 2 Neutral Density 4 Neutral Density 8

Star x 4

STARS AND DIFFRACTIONS

Star x 6 Star x 6 with centre spot Star x 8 Difraction 2x Difraction 36x Difraction 4x Difraction Star 4 Difraction Star 8 Difraction Square Difraction Halo **CLOSE UP'S**

Close Up 1 Close Up 2 Close Up 4 Split Field

MULTI IMAGE AND SPEED

Multi Image 3 Multi Image 5 Multi Imağe 7 Speed

COLOURS

20 x Polyester colour set Yellow Orange Green Red Sepia Sky



20 x Wratten polyesters set 80B 80C 81A 81B 81C 82A 82B 82C 85A 85B 85C FLB

DOUBLE EXPOSURE AND MASKS

A Double Exposure A Double Mask 1 A Double Mask 2

DIFFUSERS AND FOGS

A light Diffuser A Strong Diffuser A Fog A Fog 2

NETS

Net Blue Net Grey Net Green Net Orange Net Red Net Violet Net White

SPOTS

Oval Spot Blue Oval Spot Clear Oval Spot Grey Oval Spot Red Oval Spot White Spot Blue Spot Clear Spot Grey Spot Green Spot Orange Spot Red Spot Violet



P SYSTEM TO FIT ALL COKIN P SIZE SYSTEMS

Kood Adaptor Filter Rings + Cokin **Holders** Adapter Ring 38.1mm

Adapter Ring 35.111 Adapter Ring 52mm Adapter Ring 55mm Adapter Ring 58mm Adapter Ring 62mm P Adapter Ring 67mm P Adapter Ring 72mm P Adapter Ring 77mm P Adapter Ring 77mm P Adapter Ring 82mm

GRADIENTS

0.3 ND Gradient Soft 0.3 ND Gradient Hard Cut 0.6 ND Gradient Soft 0.6 ND Gradient Hard Cut 0.9 ND Gradient Soft 0.9 ND Gradient Hard Cut Light Blue Graduated Dark Blue Graduated Cool Blue Graduated Light Green Graduated Dark Green Graduated

Light Grey Graduated



Light Mauve Graduated Dark Mauve Graduated Light Red Graduated Dark Red Graduated Light Tobacco Graduated Dark tobacco Graduated Light Yellow Graduated

DarkYellow Graduated Light Sunset Graduated Dark Sunset Graduated

POLARIZERS

Linear Polariser Circular Polariser

NEUTRAL DENSITY

ND400 9 Stops (Japanese Glass) available Round (Back Slot) Square (for use with PL, star etc) ND16 4 Stops (Japanese Glass) Neutral Density x2 Neutral Density x4 Neutral Density x8 Neutral Density x8 (Glass)

INFRA RED 720 P FILTER

Infra Red 720 Optical Glass

STARS AND DIFFRACTIONS

Starburst x4 Starburst x6 Starburst x8 Difraction 2x Difraction 36x Difraction Double Halo Difraction Halo Difraction 4x Star Difraction Filter DS8 Difraction Square

CLOSE UP FILTERS

Close up +1 Close Up +2 Close Up +4 Split Field

COLOURS

Yellow Oranae Green Red Skylight Sepia

DIFFUSERS AND FOGS

Light Diffuser Strong Diffuser Light Fog Strong Fog

CONVERSION FILTERS

80A 80B 81A 81B 81C 82A 82B 82C 85A 85B 85C FLD FIVV FLB



DOUBLE EXPOSURE

Double Exposure Solar Eclipse Filter

SPOTS

Blue Clear Spot Clear Spot Green Clear Centre Spot Grey Clear Spot Orange Clear Spot Clear Oval Spot Grey Oval Spot White Oval Spot Red Clear Spot Violet Clear Spot White Clear Spot



Z 100 MM FILTERS GRADIENTS 100 X 125MM

0.3 ND Gradient Soft 0.3 ND Gradient Hard Cut 0.6 ND Gradient Soft 0.6 ND Gradient Hard Cut 0.9 ND Gradient Soft
0.9 ND Gradient Hard Cut Light Blue Graduated Dark Blue Graduated Light Green Graduated Dark Green Graduated Light Tobacco Graduated Dark tobacco Graduated Light Sunset Graduated Dark Sunset Graduated



NEUTRAL DENSITY

Neutral Density 2 Neutral Density 4

DIFFUSERS AND FOGS

Diffuser Light Diffuser Strong Fog 1 Fog 2

COLOURS

Yellow Orange Red Green Sepia Skylight

CONVERSION FILTERS

80B 80C 81A 81B 81C 82A 82B 85A

85B 85C FLB

Spot Clear Spot Oval Spot White



80A

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PHOTOGRAPHIC ACCESSORIES

Bock Cops

Conon AF Conon FD M42 scene Sony/Min AF Sony NEX Manulla MD Nikon Обунерая ОМ Обунерая 4/3 Olympus m 4/3 Fortiga K Yashica/Contax Leico R leica M leica 139



Samung NIX Body Caps

Canon Al M42 screw Sony/Min Af Sony NEX Minolty MD Million Olympus OM Овупрыз 4/3 Обупрыз №4/3 Fortax K Contax/Yoshica

Adopters

Comera - Lens Adopters Can AF - FD Can AF - M42 Can AF - Nillion Can FD - M42 Cly M4/3 - CAF Clym A/3 - Can Alf (With operate ring) Oly M4/3 - Nilson Cly M43 - Nikon (With operane mg) Cly M43 - Ielox M Sony/Min AF - MD Sony/Min AF - M42 Minoha MD - MAZ Nilian - MAZ Pentak K - MAZ Sony NEX - Con AF Sony NEX - Son/Min AF Sony NEX - Nilian Al Sony NEX - Nik Al and G Sany NEX - PK. Sony NEX - Leca M Sony NEX - Can AF with approve ring

C Mounts

Cernos Al-M42 Million Olympus OM C Mount Oly 4/3 C.Mount - Oly Micro 4/3 Fentox K T2 Thread Sany NEX



CarifD Konica Nikon Olympus OM Olympus AF Olympus 4/3 Oly Meno 4/3 Proletica B Sony/Min AF Atinolita MD Persian K Yashica Contax

Con AF



37mm 49mm 52mm 55mm 58nm

Can AF 52mm Can AF 58mm Can FD 52mm Can ID 55mm Yash/Cont 52mm M42 49mm M42 52mm M42 55mm Min MD 49mm Min MD 52mm Min MD 58mm Sony/Min AF55 Nikon 58mn Praktica B 49mm Feetax K. 49mm Penkax K 52mm Penkax K 55mm Fentov K. 56mm

Camera Viewing accessories

Screen Hoods Canon 500 Conon 350D Conon 450D Nikon DZO

Full shield magnifying Screen Hoods Canon 5D/7D/5000

Conon 50/70/5000 Conon 550d/148on 5000 anon 600/6000 Eye Cups Conon 5500 type Nikon D300 type

Chinon Fujica Nikos F type Peaktion Frize Right Angle Viewer

Shutter Release Items

10" Metal Calse Release 24" Netal Cable selecte 36" Metal Cable release 10" Veryl Cable release 18" Veryl Cable release 20" Veryl Cable release 36" Veryl Cable release



Medium: Hunicano Elover Large Bower Brah Medium Blower Brah Uzutick Leng Brush bens Tusses Small Micro Fibre lens cloh) zege Micro Fibre lens cloh) is Clearing Solution 4 Fisce Cleaning set 7 Fisce Cleaning Set In White Snap Bool 2 x Silca Gel 4 x Silca Gel 2 x Digital Screen Protect Squeegen and clearing Contact Cleaning Pen Red Eye Pen

Camera Sling Strap

Concealed Wire, tripod Bush attach) strap Double concealed wire strap Witt stop but litting

Comfort Strops

Backing, revenue quick refea Catches Makes hand stood Block Royal Blue For Canon For tylkon For Minolin For Minoha

Fox Pontosi

For Clympos

Reversing Rings 30mm-38min Wide Strops

Plain Black, embowed For Carron, embassion For Nikon, embossed For Minoba, embossed For Olympus, embossed For Pentax, embossed Hand Grip with Camera Plaform Nanow black strap 25mm

Loop Fitting Strap

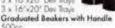
Metallic Neck Stop Metallic What Strap

Rain Covers

Basic Rain Cover Lorgio Surema Winter



16"x17" Okanging Bag 27"x29" Changing Bag 3"x45" Changing Bag 10 place Film Dav Kit 14 Pages film god paid Dav Kit Dark Room Apron Straight Tork Therome 25mm Dial thermometer 45mm Dial thermometer 2 XS/Steel film Clips 3 x Barriboo Frint Yorgi Print/Min squeeque Univ Dev Yank 2 x Spirats 35mm Dev Tank Spare Univ Spiral
3 x 7 x 10" Dev Roys
3 x 12"x10" Dev Roys
3 x 12"x16 Dev Roys
3 x 16"x20" Dev Roys



Graduated H/Duty Measures

1-DOes 300er 1000m

Safelights free standing Or wall fixing

Orange

Flash Accessories

Inverted cone attachment give soft daylight result for

Conon 420EX Conon SBDEX Caron 360EX Nikon SB 600 Nikov 58 900

Diffusers

Conon380EX Canon 420EX Canon 430EX Coron 540EX Coron 550EX

Carron 590EX Carion &ODES Nikov SB600 Nikon 58800

Nikon 58900 For v Pop up Flash Soft Flash Elasticated Cover

Flosh Slave Unit with Sucker

Florin Stone Nikon (TT)

Flash Brackets Straight Flash Bracket Angle Flash Brocket Pro Brocket 1 Pro Bracket 2 Fig Bracket 3 Pro Bracket 5 Pro-Brocker 5 Flot Show Co used Hot shoe with lead Florin Slove Unit

Flash Leads Pc Pc

O5m Sagight I'm Seuight 3m Snoight 3m Straight 5m Straight 10m Straight

Flash Leads PC-two pin AC

I'm stoight 2m straight 5m straight

Film Items

Film Cerneral 100 x super B spiking tope Super B Tope Splicer 35mm Rastic microadable Film Cossette Opener Bulk Film Loader Attaché case 5 x 50 din mag Adoché cose 5 x 50 din mos Adoché Cose up to 600 slider AFS film Cose Daylight Side Viewer 7 x Mag Side Viewer 2 X Mag Side Viewer Auto Side Viewer 5 nd Side Sotter 5 nd Side Sotter 6"x10" Stide Sorte 6 x 10 Seas Soner Box of 6 Acrylic Slide panels Twin 50 Din Mag Twin 50 C5 Mag Hanimax Rondel Mag Hanmax Shaight Kodak Carousel c/w lid

Filter Accessories/Rings

2x Filter Wrench 48 - 58mm 2x Filter Wierich 62 - 77mm Inding Filt. Fouch 4 x - 86mm Folding Filt. Fouch 4 x - 67mm Folding Filt. Fouch 9 x - 86mm Folding Filt. Fouch 9 x - 67mm

3 draw 35.5mm 37nm40.5m 43mm 48mm 52mm

& Zmm 62mm deep 67mm 82mm

Filter Ring rotating c/w retainer

62mm

Collapsible rubber 40.5mm 43mm 46mm down

67mm

Wide Angle 49mm Chart



Combi Two stage WA - Tele

Petal Hood Screw fit can be

67mm Metal 30.5mm





Leica type Metal Hoods

Puli X

52mm

55min

58mm

57mm

72mm

82mm

School





Snap Caps 30/30 Sees 34em 37mm ACL Smin 43mm 4cmm #Bmin 49mm







White Balance Snap Caps

58mm 62mm 67mm 72mm 77mm



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90v200mm Zipped lid and filter compartment

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Shoe Fitting Spirit Levels

2.Way 2 Way to Sarry 3 Bobble 3 Bubble for Son



Stepping Ring 25-28mm Stepping Ring 25-30mm Stopping Ring 25:37em Stopping Ring 27:28em Sepping king 27-30in Stopping Ring 27-37mm Stopping Ring 27-43mm Stopping Ring 27-46mm Stopping Ring 27-49mm Sepping Ring 27-52mm Sepping Ring 28-27mm



Stopping Ring 30.5-97mm Stopping Ring 30.5-43mm Stopping Ring 30.5-46mm Stopping Ring 30.5-49mm Stepping Ring 90,5-52m Stepping Ring 30-25mm Stepping Ring 30-28mm

Sepping Ring 30:30.5mm Sepping Ring 30:33.5mm Stepping Ring 30:37mm Stepping Ring 30:43mm

Stopping King 30-45mm Stopping King 30-49mm Stepping Ring 32.537m Stepping Ring 34-37mm Stepping Ring 34-43mm

Stepping Ring 34-45mm Stepping Ring 34-49mm Stepping Ring 35:5-37mm Stepping Ring 35:5-49mm Stepping Ring 36-37mm Stepping Ring 37.5-37m

Sepping King 37, 543 mm Sepping King 37, 545 mm Sepping King 37, 549 mm Sepping King 37, 552 mm Sepping King 37, 552 mm Sepping King 37, 27 mm Stepping King 37-28mm Stepping King 37-30mm

Stepping Ring 37-30 5m Stepping Ring 37-34mm Stepping Ring 37-35. 5 Stepping Ring 37-37mm Stopping King 37-37.5

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Slepping Ring 77-58mm Shopping Ring 77-62mm Shopping Ring 77-67mm Shopping Ring 77-72mm

Suppling King 77-82mm Stepping Ring 82-67mm Stepping Ring 82-72mm

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Haselblad Adapter 850-55 Hasselblad Adapter 850-58 Hasselblad Adapter B50-67 Hissablad Adopter 850:58 Hasselblad Adapter B60-62

Figurelblad Adapter 870-72 Rollai Adapter 66-67mm Rolle: Adopter 66-72mm

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250 s Gold Photo Comes 250 s 19mm Photo Comes 224 x Block Photo Corners 252 x Silver Classic Photo Corners 252 x White Classic Photo Corners 106 x Gold Classic Photo Corners

500 x Photo-double sided Pads Easy Mounter Runner Permanent Small Double sided tape

5 Niter High Tack double sided Tape

Tripod Bushes Eng.: Corri Pre Tripods with long and short cal,

3 step leg soloy, bag hook, case Shoulder strap

28mm Alloy 4 section 22mm 4 Section Corbon Fibre

28mm 4 Section Carbon Films

32mm 4 Section Curbon Fibre

Pro Manapads 4 section 27mm Alloy with 5tr Platoms

Ball and Socket Heads Crem modes O

28mm 4 Section Corbon Fibre with Ball

32mm 4 Section Corbon Fibre with Bo

Light weight Alloy with pan tilt, spiri

level Geored centre col. Plus case

pare Tool Kill

Fool Fool

Pod Foot

GR Plate 3 GR Plate 4 **GR Plots 5** GP Plote 5 CR Ploto 7 for L/Alloy

20rom series O

105mm 3 Way 120mm 3 Way

Std 85 large Std BS small

GR Plate 1

CR Plate 2

Flexible Grip Pods

Medim longer Wire Flest Fool G Clamp with ball head

KOOD DSLR Rigs

Keight Keig 2 K Rig 4 Comora Cago

KOOD Stead Cu

20cm Steady Care 1 Spring west 2 Spring Vest 6Ccm Steady Com

Trucked Stider

60cm, 80cm, 100cm, 120cm

Skate Wheeled Dollys nul 4 wheels K Big 4 Wheels 2 x stoods Big 3 Wheels 2 x Dolly Stands

Follow Focus Devices

O for rods/GR Clargs, Jams Geor Belt I for rods, Lens gear belt 2 for Commo. I. Mount, Jama Good Bult. 3 Korls, Priord Stoppers, Sens Geor. Built 4 for Rods Hard Stopper, Clutck release, Sens Gear Belt

KOAT.

10/12 KM3

7" Am 1.15m Arm find Clamp Super crob Chargo Speed orank for FO-4 12" Whip 18" Whip Large Lens Support IENS Goor Belt

Zoom Lever Gear Ring 1 8mm Connection and Roch Ir Rig. 1 C. Arm and Top Handle Plothern with 40cm Book

1 connector Z Conwcks

Rig 1 with Top Handle Fig 2 With Top (Handle Rig 7 F/Foom 4, KM2, Crank, Whip and case

Rig 4, KF3, KVX3 Cage set connector 2, Rods, Top Handle KF 1, KM1



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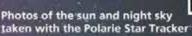
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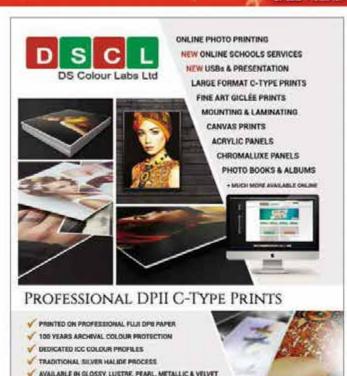


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April 9th; Golden Eagle will fly, and perch in carefully chosen natural settings. Jesses hidden for static shots Controlled flying. Also selection from; Owls, Buzzard, Hawks, Goshawk Max. 8 photographers. Cheetahs, Lions, Foxes, Birds of Prey, Cambs.

April 8th; Privileged access to Cheetahs, Malayan Tigers, White Tiger & Corsac Foxes. The Cheetah & Tiger enclosures are not mowed for enhanced photographic opportunities. Private Displays by various Birds of Prey,

both static & flying. Jesses hidden for static shots. Barn Owl, Eagle Owl and Red-Tailed Hawk etc. Amazing Bat Photos & Learn Fill-in Flash Techniques

April 7th; Oxfordshire. Take amazing bat photos, plus learn how to use balanced fill-in flash on wildlife subjects in different lighting conditions. Max 4 persons. Free loan of Canon digital camera and flash if req'd. Big Cats at WHF, Smarden in Kent

April 1st, 22nd; Up close to African Lions, Bengal + Siberian + Sumatran Tigers, Servals, Cheetahs, Pumas, Jungle Cat, Amur & Snow Leopards, Caracal, Lynx, Clouded Leopards, Fishing Cat. Large open photographer-friendly enclosures. UK's most popular photo workshop. Really special photo opportunities from just inches away. White Lion pride in a huge natural enclosure. Max 12 clients.

Big Cats at WHF, Smarden, Kent - Specialist event 6 photographers - incl. Jaguars £199 March 30, 31. April 20, 21st; Full day as above, but with additional space at each enclosure. Time is also put aside to review your photos at lunchtime. One to one tuition throughout this very special day. You wil see all the animals as above and you will have more personal interaction with the cats. Now including Jaguar. Gift Vouchers available for any Workshop or for any Monetary Value.

These Experiences make Wonderful Gifts for that Special Occasion.

Birds of Prey Workshop, Bedford April 15th, 16th; Private flying displays on pre-determined flightpath helps you to focus on birds in flight. Excellent opportunities with carefully chosen backgrounds. Also static shots in outstanding natural locations. Jesses carefully hidden. This location boasts one of the largest collections of Birds of Prey in the UK. White tailed Sea Eagle, Bald Eagles, Hawks, Owls, Falcons, Kestrels, Buzzards and Long Eared Owl (new).

Foxes, Otters, Wildcats, Badgers & more, Surrey, July 11, 12th; Inside enclosures 'til sunset. Also Owls, Snakes, Badgers, Polecats, Weasels, Stoats, Hedgehog, Harvest Mice & various Deer. 2 sessions with the foxes, sometimes only inches away from you. Inside encloses with Foxes, Otters, Scottish Wildcats. Badgers GUARANTEED. No fences or wires to shoot through.

Small Cats Workshop, Welwyn, Herts. April 3rd; Privileged access to Snow Leopards, Amur Leopards, Pumas, Caracal, Leopard Cat, Lynx, Servals,

Golden Cat, Jaguarundi, Cheetahs, Asian Wildcat. As featured on Animal Planet. Small groups. Bass Rock Gannets

June 9th, June 18th, June 25th; Private boat. Exclusive use of island for just 10 photographers, 50,000 pairs of nesting gannets on one small island. 4.5 hours photography. Amazing close-ups & fantastic flight shots. Large crate of fish fed to gannets as they dive into the sea. An amazing sight that you will never forget. Gannets diving off Bass Rock

June 14th; Fantastic new workshop for 2014. We sail round Bass Rock without landing on the island. A whole hour of throwing fish into the sea for the Gannets to catch. Amazing diving shots. 1,000 + dives. Tuition Farne Islands Puffins (Over 5 hrs photography)

June 10th, 17th, 24th; 20 species of birds. 50,000 puffins. Guillemots, Razorbills, Shag, Arctic Tern colony etc. You will get unbelievably close to some of the species. Get that much sought after shot of Puffins with their beaks crammed full of sand eels. Tips and Tuition. Approximately 5 hours photography.

Pro Birds of Prey Shoot (2) with Short Eared Owl, Northumberland June 8th, 13th, 16th; Both the falconer and the birds are different to workshop above. Venues are about 20 miles apart. We will take two of the birds down to an amazingly beautiful, little known waterfall. This will provide a unique backdrop for your subjects. The falls are surrounded by trees covered with mosses and lichens. We will photograph up to 10 different species of birds, mainly British. Maximum 8 photographers.

Small Mammals, Insects & Reptiles July 27th, 28th; Indoor studio set-ups ensuring professional quality photos of stunning subjects. Studio lighting set up for you. Triggers to fit your camera supplied, Cameras and lenses can be loaned without charge. Innovative set-ups to maximise your opportunities. Max 4 persons. Harvest Mice, Red Eyed Tree Frogs, Praying Mantis, Locust, Beardeed Dragon, Scorpion, Tarantula, Snakes, Lizards etc.

NEW WORKSHOP

Birds of Prey on Lindisfarne (Holy Island) incl. Short Eared Owl June 5th, 6th; New workshop for 2016. Photograph a Short Eared Owl in its natural habitat before continuing with selection from Eagle Owl, Long Eared Owl, Barn Owl, Buzzard, Kestrel, Little Owl, Tawny Owl using boats, Lindisfarne Castle, boat houses & fishing props as backdrops.

DESTINATIONS ABROAD 2017 & 2018

Masai Mara in Kenya - Birds & Mammals of Costa Rica - The Galapagos Isles White Horses in the Camargue - Falklands Tour - Tigers in India Animals in Snow in Montana - Brown Bears in Alaska - Jaguars in the Pantanal South Africa Wild Dogs and Reflection Pools - Botswana by Boat Alaska's Inside Passage - Namibia's Wildlife, Landscapes & the Himba Tribe

















For more information, please visit the website or call John Wright on 01664 474040 or 07779 648850 (preferred). We will be most happy to discuss any workshop in detail, or to send more detailed leaflets to anyone without internet access. Photographers on Safari, West End Studios, 55 Stapleford Road, Whissendine, Oakham, Rutland. LE15 7HF



GLAMOUR AND ART NUDE - LOCATION WORKSHOPS - PHOTO SHOOTS

Join Paul's Events on a glamour and art nude photo shoot at one of our exclusive locations. The events are perfect for beginners and experienced photographers, free help and assistance is on hand, and optional tuition can also be arranged. We offer a choice of shooting and booking options, either working in small groups or options for shared or exclusive one-to-one shoots. Our models are experienced professionals selected for their creative, fun and easy to work with personalities.

WALES WEEKEND

An elegant 18th century mansion house estate in Carmarthenshire is the setting for this event, Includes diverse locations such as beautifully furnished interiors, walled gardens, parkland, river and woodlands. Studio lighting will also be set up for use both inside and out. Accommodation and home-cooked meals are included.

Fri 12th - Sun 14th May 2017 Fri 14th - Sun 16th July 2017 Fri 1st - Sun 3rd September 2017

MANOR HOUSE EVENT

Spend the day in a beautiful Grade II listed Jacobean manor house, complete with splendid furnished rooms and with an abundance of natural light flooding into these contemporary decorated rooms. The manor house is set in 25 acres of classical gardens and parkland, including ornamental lake. Conveniently located in Berkshire close to M4 motorway and train stations.

Sat 4th March 2017 & Sat 11th November 2017

LIGHTING THE NUDE - NEW FOR 2017 - LEARN TO CREATE BEAUTIFUL BLACK, WHITE AND NUDE IMAGES - A PHOTOGRAPHIC WEEKEND FRI 14TH - SUN 16TH JULY

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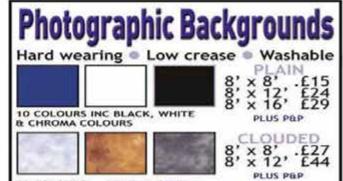




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- Support CANON e-TTL & all the e-TTL -compatible flash guns.
- Can trigger the flash guns up to 80 M due to the very stable FSK 2.4 GHz is used.
- · Compact, robust and long life.
- PC port is also provided for flash trigger.









Viltrox specializes Flash guns/Remote controllers/Conversion adapter rings for Mirror less cameras/Extension tubes/Filter.



JY-680 Standard Spenish JY-680C E-TTL Spendiss JY-080N h TTS Speeding JY-670 Standard Macro Ring Lite

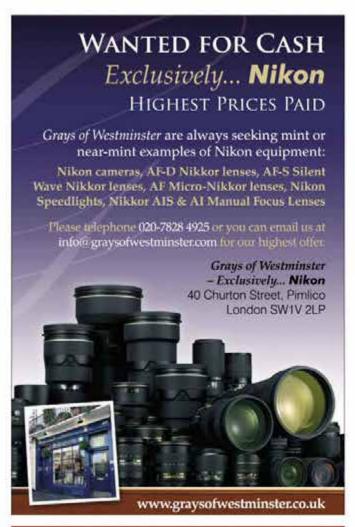


EF COS M Mount Arises EF-NEX Mount Adapter



DG-N Automatic Extension Tube set DG-M43 Automatic Extension Tube set DG-NEX Automatic Extension Tube set DO-FU Automatic Extension Tube set

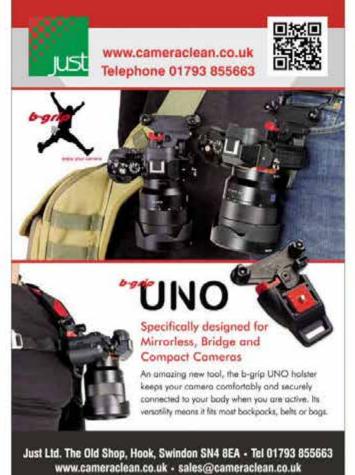
Viltrox offer great play value by: Stringent quality control -Supported by strong engineering team. Set up our own R&D team, mold shop and assembly lines in Shenzhen China to achieve competitive cost. www.viltrox.com/en/















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Train to be a Wedding & Portrait Photographer - Great earning potential, Great life style, Great job

On completion students are welcome to spend 2 weeks work experience in our working studios

All courses are City & Guilds certificated up to Level 3



First Point Photography is a successful commercial studio and City & Guilds Training Centre specialising in Wedding and Portrait Photography as well as Vocational Training.

Our courses will teach you all aspects of photography, including how to set up & run a successful photography business, 15 studio & location portrait shoots, wedding shoots including at a church and digital manipulation.

Theory - Family studio shoots, Makeover, Funky urban & Wedding shoots - Digital manipulation

Approved Resettlement Training Provider for The Armed Forces







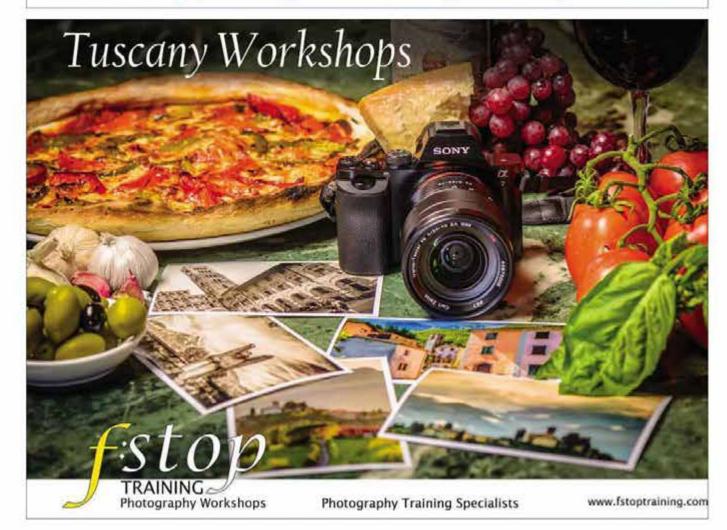














Win One of two Manfrotto photo bundles worth £345!

MANFROTTO OFFERS AN EXCELLENT RANGE OF ACCESSORIES FOR PHOTOGRAPHERS OF ALL LEVELS AND, IN OUR EASY TO ENTER COMPETITION, TWO LUCKY READERS COULD WIN A SET OF ITS LATEST PRODUCTS: A PRO MONOPOD AND STYLISH BACKPACK!

DO YOU FANCY WINNING some first class photo accessories from a reputable brand? Then this month's competition, which offers you the chance to scoop one of two bundles from Manfrotto, is just what you need. Based in Italy, this market-leading brand produces high-quality camera and studio supports, storage solutions and lighting options for amateur and professional photographers.

This month's competition offers not one but two readers the chance to scoop a fantastic prize bundle of two recently released products, worth around £345. And all you need to do to have a chance of winning is answer one simple question.

So what could you win? The first item in our bundle is the Pro Light camera backpack 3N1-36, designed to offer a 3-in-1 storage solution. Not only can it be carried as a backpack, it can also be used as a sling bag or as a cross backpack. It's a very stylish bag with interchangeable dividers designed to hold a DSLR outfit, drone or pro video kit, as well as having a dedicated laptop compartment. It features a water-repellent fabric as well as a fold-out rain protector to

protect your gear from the elements. It's a great choice for general outdoor use, while its cabin-friendly size and trolley connection also make it the ideal travel companion.

The second part of our prize is one of the finest monopods ever made. The XPro five-section carbon-fibre monopod is designed to satisfy the needs of the most demanding professional photographers. Its 100% carbon-fibre tubes ensures the perfect combination of lightness and rigidity for the ultimate in portability. Quick Power Locks securely fasten the leg sections thanks to an easy ergonomic mechanism. The XPro monopod weighs only 620 grams and can extend from 49cm to 176cm and hold a 5kg load. A leg warmer aids use in the cold and it boasts a dual 1/4in-3/8in fixing screw.

To be in with a chance of winning one of our fantastic Manfrotto bundles, all you need to do is answer a simple question before the closing date of Tuesday 17 January 2017. Please note that this competition is only open to readers living in the UK.

For further information on Manfrotto products, visit: www.manfrotto.co.uk



HOWTO ENTER

For your chance to win one of two Manfrotto bundles, answer this simple question:

What is the main material used in the XPro monopod?

A) Carbon-fibre B) Aluminium C) Polystyrene

Email your answer, along with your name & address, to: competitions@dslrphotomag.co.uk using the subject 'Manfrotto goodies' by Tuesday 17 January 2017. We'll pick two winners at random and they will receive confirmation within seven days. Open to UK readers only

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SIGMA

Welcome to the world of zero distortion. The ultimate 12mm ultra-wide-angle performance.



12-24mm F4 DG HSM

Padded case included.

Available for Sigma, Canon and Nikon AF cameras.

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Mount Conversion Service
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Mount Conversion Service. Only by SIGMA.





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KeyMission 80 KeyMission 360 KeyMission 170

I AM THE NEW KeyMission FROM NIKON. I am a range of three wearable action cameras, your trusted companions that capture every ride, every step or every climb. I am a powerhouse in a small package, preserving your life's experiences in sharp and vivid imagery. Immersing myself in your adventures, I catch the moments that only happen once. I transfer your images to your compatible smart device automatically with the SnapBridge' app. I am your adventures starting now, nikon.co.uk



